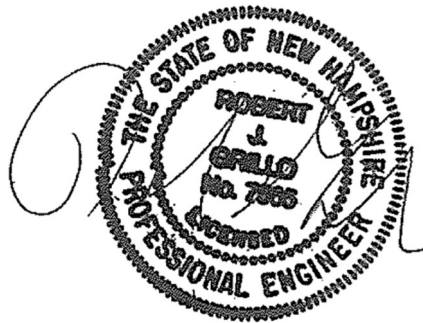


**DES Waste Management Division
29 Hazen Drive; PO Box 95
Concord, NH 03302-0095**

**Standard Permit for Solid Waste Landfill
Granite State Landfill – Phase I
Response to NHDES Incomplete Application (#2021-52265)
Douglas Drive
Dalton, NH 03598**

**NHDES Site #: TBD
Project Type: SW-LNDFILL
Project Number: TBD
Site Code: 123456789**

Prepared For:
Granite State Landfill, LLC
1855 VT Route 100
Hyde Park, VT 05655
Phone Number (802) 651-5454
RP Contact Name: John Gay
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Prepared By:
CMA Engineers, Inc.
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Date of Application: November 1, 2021



ESTABLISHED 1975

GRANITE STATE LANDFILL, LLC

1855 VT Route 100 • Hyde Park, VT 05655 p. 802.651.5454 f. 802.888.7931

November 1, 2021

Mr. Jay Hargy, P.E.
Solid Waste Management Bureau
New Hampshire Department of Environmental Services
29 Hazen Drive, PO Box 95
Concord, NH 03302-0095

**RE: Granite State Landfill, LLC
Proposed Lined Landfill – Dalton, New Hampshire
Standard Permit Modification – Application # 2021-52265
Response to NHDES Incomplete Application Correspondence**

Dear Mr. Hargy:

Granite State Landfill, LLC (GSL) writes to provide a supplemental response to the information requested by the New Hampshire Department of Environmental Services (NHDES) in correspondence dated June 1, 2021. This response augments our July 21, 2021 submittal and provides additional information that is presented in **bold type** following the NHDES comment in *italic type*. We have uploaded an electronic copy of this response to the NHDES One Stop database. A revision date is provided on each revised page and sheet.

Application Content

Capacity was provided, but was not consistent across all portions of the application. Pursuant to Env-Sw 314.06(e), (1) provide the capacity for each facility function, expressed in tons and cubic yards, including storage capacity for recyclable materials and residual wastes; (2) processing capacity for construction and demolition debris; and (3) disposal capacity for the landfill. Ensure proposed capacity quantities meet the definitions in Env-Sw 102.09, Env-Sw 102.10 and Env-Sw 102.11.

GSL understands that the response to item #1 above has been addressed. This correspondence addresses item #2, Construction & Demolition Debris (C&D) and item #3, landfill disposal capacity. GSL revised Section 3.3.1 of the facilities Facility Operating Plan to add a narrative detailing the segregating of certain C&D, scrap metal and cardboard at the facility if opportunities arise to further recycle those items. The revised Facility Operating Plan page is attached. The updated assessment of seasonal high groundwater and the revised bedrock

surface elevation contour plan (see below) are being used to redesign the landfill base grades and perimeter berms. The landfill disposal capacity will be revised accordingly across all portions of the application and provided in a subsequent submittal.

GSL provided cost estimates and asserted that it would provide the required bonds for purposes of financial assurance. Pursuant to Env-Sw 314.12(f), provide a complete proposed financial assurance plan, specifically including a complete draft of the financial assurance mechanism (e.g., bond, standby trust), prepared in accordance with Env-Sw 1403.

GSL will provide financial assurance in the form of bonds for closure and post-closure to be held by a Standby Trust. The form of each is attached to this correspondence.

NHDES reviewed the hydrogeological and geotechnical reports and found there was insufficient information to evaluate the requirements of Env-Sw 804, including relative to the minimum separation distances from the base of the landfill liner to bedrock and seasonal high groundwater elevations (6 feet each for groundwater and bedrock), and the feasibility of designing and installing a groundwater release detection system pursuant to Env-Or 700. Pursuant to Env-Sw 314.10(b), provide the following additional information to facilitate technical review of the application relative to the requirements of Env-Sw 804:

Supplemental hydrogeologic data discussed with NHDES on July 23, 2021¹, August 19, 2021², and September 19, 2021³ have been and continue to be collected. A supplement to the Hydrogeologic Report is attached and contains the following information:

- **A summary of the exploration locations selected for installation of new monitoring well couplets;**
- **Boring logs for monitoring wells installed in July 2021;**
- **Updated groundwater elevation measurements from 2021;**
- **A revised bedrock surface elevation contour plan, updated to include information from borings installed in 2021;**
- **An updated assessment of seasonal high groundwater elevation in Phase I area;**

¹ <https://www4.des.state.nh.us/IISProxy/IISProxy.dll?ContentId=4939601>

² <https://www4.des.state.nh.us/IISProxy/IISProxy.dll?ContentId=4942572>

³ <https://www4.des.state.nh.us/IISProxy/IISProxy.dll?ContentId=4953770>

- Updated cross-sections depicting new monitoring wells and updated bedrock and seasonal high groundwater surfaces; and
- An on-going assessment of drought conditions in northern New Hampshire in 2021.

Note: Information associated with the geotechnical borings installed in 2020 have been incorporated into the attached Hydrogeologic Supplement.

Additional hydrogeologic information will be transmitted to NHDES in future supplemental reports as data from the on-going monitoring become available. See responses below for a summary of information contained in the attached Hydrogeologic Supplement.

Subsurface Investigations

- *The logs of additional borings, laid out in a systematic investigative pattern within the footprint, used to determine depth to bedrock.*

As discussed with NHDES at the meeting on September 16, 2021, five monitoring well couplets were installed in the Phase I area in a systematic investigative pattern to provide additional bedrock and groundwater elevation information. The attached Hydrogeologic Supplement includes a site plan showing the locations of the borings sited in a systematic investigative pattern (Appendix A), as well as the boring/monitoring well completion logs (Appendix B).

- *The logs and monitoring data from additional groundwater monitoring points, laid out in an investigative pattern within the footprint, used to evaluate seasonal high groundwater.*

As indicated above, logs of groundwater monitoring wells installed in July 2021 are included in the attached Hydrogeologic Supplement. Information from these borings and others previously installed at the site was used to evaluate seasonal high groundwater within the Phase I area (refer to Appendix C of the Hydrogeologic Supplement for a summary).

Figures

- *A figure showing the separation distance from the designed bottom of the proposed landfill liner system to bedrock.*

The updated assessment of seasonal high groundwater and the revised bedrock surface elevation contour plan are being used to redesign the landfill base grades and perimeter berms. The revised design and figures showing the regulatory separation distances to groundwater and bedrock will be provided in a subsequent submittal.

- *Geologic cross-sections, tied to surface (e.g., wetlands as discharge points) and subsurface explorations (e.g., hydrogeological, geotechnical), depicting pertinent features in detail such as the proposed liner, fill, bedrock, and seasonal high groundwater, including a note indicating the date(s) from which the seasonal high groundwater elevations shown were derived.*

Geologic cross-sections, tied to surface and subsurface explorations depicting the existing ground surface, bedrock, and inferred seasonal high groundwater are included in the attached Hydrogeologic Supplement (Figures 3A, 3B and 3C). The cross-sections note the dates from which the seasonal high groundwater elevations shown were derived. Detailed cross-sections depicting the proposed liner, fill, bedrock, and seasonal high groundwater are being prepared and will be provided in a future transmittal.

- *Other figures updated as appropriate to reflect the updated hydrogeological and geotechnical information.*

CMA Engineers will revise the stability analyses to reflect changes in the bedrock surface and seasonal high groundwater, as well as revised landfill base grades and perimeter berms. The revised stability analyses will be provided in a subsequent submittal.

Discussion, Modeling & Analyses

- *A discussion of the seasonal high groundwater and its current and historical trends as it relates to the recent drought conditions and the groundwater to liner separation across the liner footprint.*

Appendix D of the attached Hydrogeologic Supplement includes an on-going assessment of drought conditions through October 2021.

- *A discussion regarding how the discharging groundwater conditions will be affected by potential filling of wetlands, both within the liner footprint and outside of it. Address the potential effects of fill on groundwater elevations and whether it will cause a rise in groundwater levels that may compromise the required 6-foot groundwater to liner separation.*

CMA Engineers is currently revising the base grades of the landfill to reflect the updated bedrock and inferred seasonal high groundwater surfaces prepared by Sanborn Head based on monitoring well installations completed this summer. Refer to Sanborn Head's Hydrogeologic Supplement for updated bedrock surface information and a discussion of how seasonal high groundwater contours within the Phase I area were developed. GSL will provide updated figures depicting secondary liner separation to seasonal high groundwater and bedrock as a supplemental submittal.

The GSL engineering team has evaluated the delineated wetlands within the Phase I limits of disturbance and their vertical position relative to seasonal high water levels. See attached figure which compares the seasonal high groundwater contours and the surface topography. Most of the delineated wetlands depict red "tick marks" signifying they are perched above the seasonal high water levels. Note that wetlands within the Phase I area do not contain field-delineated perennial or intermittent streams or ponded surface water indicating they do not receive significant discharging groundwater flows. In October 2021, piezometers were installed in select Phase I wetlands to further refine measurement of groundwater elevations in wetland areas. This information will be reported in a future Hydrogeologic Supplement.

Most of the wetlands will be filled during construction of the first five of seven landfill cells. These wetland soils will be removed, backfilled, and covered with the landfill subbase soils and lining system as construction progresses. The landfill lining system will block and collect recharging precipitation infiltration resulting in lower groundwater levels. The wetlands in the last two landfill cells will be filled several years before cell construction during the latter years of the expected 10-year term of the Alteration of Terrain (AoT) permit (five-year permit and expected five-year extension). These wetland soils will be removed, backfilled with granular fill, compacted and graded to promote sheet flow and infiltration of precipitation. Upslope diversion swales will divert surface water run on to storm water ponds and away from the filled wetlands to prevent re-establishment of wetland conditions. No soil/rock drains or drain piping is proposed to artificially depress water levels in any wetland areas.

Groundwater levels will be monitored throughout the duration of the AoT permit and design base grades will be adjusted accordingly prior to construction to maintain the required lining system separation. Groundwater flow under the landfill is generally east to west and ultimately discharges to the Alder Brook wetlands complex.

As the landfill develops to the limit of Douglas Drive, the existing swale on the upslope, eastern side of the road will be regraded to divert surface water runoff from upslope areas to the north and south to planned stormwater ponds and treatment features. The two culverts currently crossing the road will be removed. Both of these actions are expected to divert surface water and shallow groundwater from its current discharge area (where green tick marks are shown on the figure) in the larger wetland downslope and west of the road to planned stormwater ponds and treatment features north and south of Phase I. Those wetland soils adjacent to Douglas Drive will be removed and backfilled with granular soil to a level above the seasonal high groundwater table.

Wetlands are expected to be filled sequentially with development of the landfill until the term of the wetlands permit expires after 10 years. The expected cell-by-cell operation timeline is presented below:

Stage I Cell I: 2027-2028

Stage I Cells II and III: 2029-2032

Stage II Cells I and II: 2033-2037 (Constructed by 2032)

Stage II Cells III and IV: 2038-2041 (Wetlands within this area filled by 2032)

Prior to the expiration of the wetlands permit, the remainder of the wetlands will be filled within the Phase I footprint, which is expected to be Stage II Cells III and IV. At that time, all the wetlands within the limits of disturbance would be filled.

The detailed design and analysis of the wetland filling will be included in an Alteration of Terrain Application for Phase I expected to be submitted later in 2021. The application will include an evaluation of surface water hydrology for the existing pre-construction condition, temporary conditions after each of the four construction phases including sequential development of stormwater ponds and control features, and a post-closure condition. The NHDES wetlands bureau is also undertaking a review of this same issue. We will provide a copy of AoT application to the Waste Management Division for your review.

- *Modeling of groundwater transit times from the landfill (such as lined landfill footprint, associated leachate piping and storage operations areas, and infiltration/detention basins) to surface water bodies.*

Slug testing has been performed in the Phase I monitoring wells to estimate the permeability of the overburden and bedrock. The

permeability estimates from site wells are being compiled to calculate groundwater transit times from the landfill. The results of this analysis will be transmitted to NHDES in a separate document.

- *A thorough analysis of the monitorability of the proposed facility to demonstrate that if there were a release from the facility there would be sufficient time from initial contaminant detects in monitoring wells to take mitigative action before there are impacts to surface water bodies and water supplies.*

An analysis of transit times will be performed using the permeability estimates discussed in the previous response, and a summary of the monitorability of the proposed facility will be prepared and transmitted to NHDES in a separate document.

On Figure 12 of Attachment V(1), GSL proposed setbacks from wetlands via groundwater gradients; however, the requirements for wetlands setbacks are relative to protection of surface waters. Pursuant to Env-Sw 804.03(e), revise the setbacks from wetlands to reflect upgradient and downgradient based on topography rather than groundwater elevation.

Similar to previous items in this letter, an updated Figure 12 will be provided in a subsequent submittal after the redesign of landfill base grades and perimeter berms has been completed.

The proposed technical specifications included excavating and filling; however, the application and specifications did not specifically address filling in the approximately 17 acres of wetland areas. In addition, NHDES was unable to discern the amount of cut and fill needed. Clarify the proposed filling procedures for wetland areas and provide a cut and fill figure for the landfill footprint and infrastructure areas to allow for a technical review of Env-Sw 805.03.

We note that since the July 21 submittal, the wetland filling approach has changed. NHDES-Wetlands has requested that the wetland application be resubmitted to only include Phase I wetland fills, which reduces the total impact from approximately 17 acres to 11 acres. An updated cut/fill plan is currently in process pending the redesign of the landfill base grades. This plan will be forwarded to NHDES-WMD at a later date.

The application indicates that fencing will be used to control access; however, fencing for access control could not be identified on the proposed plans. Clarify where fencing will be used to provide access control. In addition, NHDES is aware

that a number of access roads have historically crossed the proposed property boundaries. Provide a review of and proposed controls for these corridors as needed to meet the requirements of Env-Sw 1103.03.

GSL provides a revised figure as prepared by CMA Engineers that considers a complete field reconnaissance and depicts the existing and any proposed conditions for perimeter security at the site.

We look forward to coordinating a meeting soon to discuss these and other technical elements of the project in the near future. in the meantime, if you have any questions, please do not hesitate to contact me at (802) 651-5454.

Sincerely,

GRANITE STATE LANDFILL, LLC



FOR

John Gay, E.I.
Permits, Compliance & Engineering

Enclosures

*SHA Hydrogeological Supplement
CMA Groundwater Separation – Wetland Areas Figure
CMA Boundary Control Figure
GSL Draft Financial Assurance Mechanism
GSL Revised Operating Plan Page #*

Enclosure #1

SHA Hydrogeological Supplement

HYDROGEOLOGIC SUPPLEMENT GRANITE STATE LANDFILL PROJECT

*Dalton, New Hampshire
Application No. 2021-52265
Prepared for Granite State Landfill, LLC
File No. 1003.20
October 2021*

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Appendix D	Drought Information
Appendix D.1	U.S. Drought Monitor Info
Appendix D.2	USGS Ammonoosuc River Flow Data

1.0 INTRODUCTION

On behalf of Granite State Landfill, LLC, and consistent with New Hampshire Department of Environmental Services' (NHDES') October 14, 2021 letter¹, Sanborn, Head & Associates, Inc. (Sanborn Head) has prepared this Hydrogeologic Supplement related to Application No. 2021-52265 for development of Phase I of the Granite State Landfill (GSL) in Dalton, New Hampshire. This information is also being compiled to support the future Groundwater Release Detection Permit Application, which will be submitted separately to NHDES.

The information in this Hydrogeologic Supplement has been prepared to address comments in NHDES' June 1, 2021 letter², as well as information discussed with NHDES at meetings on July 23, 2021³, August 19, 2021⁴, and September 19, 2021⁵.

This Hydrogeologic Supplement contains the following information:

- A summary of the exploration locations selected for installation of new monitoring well couplets in a systematic investigative pattern (Appendix A);
- Boring logs for monitoring wells installed in July 2021 (Appendix B);
- Updated groundwater elevation measurements from 2021 (Table 2);
- A revised bedrock surface elevation contour plan (Figure 2);
- An updated assessment of seasonal high groundwater elevation in Phase I area (Appendix C);
- Updated cross-sections depicting new monitoring wells and updated bedrock and seasonal high groundwater surfaces (Figures 3B and 3C); and
- An on-going assessment of drought conditions in northern New Hampshire in 2021 (Appendix D).

2.0 SUMMARY OF SUPPLEMENTAL ACTIVITIES

This section summarizes the supplemental activities discussed in this Hydrogeologic Supplement.

2.1 Installation of Additional Monitoring Wells

In July 2021, five additional monitoring well "couplets" (well pairs screened in overburden and bedrock) were installed within the Phase I Area. The wells are designated MW-35

¹ <https://www4.des.state.nh.us/IISProxy/IISProxy.dll?ContentId=4953769>

² <https://www4.des.state.nh.us/IISProxy/IISProxy.dll?ContentId=4924967>

³ <https://www4.des.state.nh.us/IISProxy/IISProxy.dll?ContentId=4939601>

⁴ <https://www4.des.state.nh.us/IISProxy/IISProxy.dll?ContentId=4942572>

⁵ <https://www4.des.state.nh.us/IISProxy/IISProxy.dll?ContentId=4953770>

through MW-39; bedrock wells have a designation of “R” following the well number. The boreholes were advanced using similar methods (i.e., rotosonic) as previous borings installed at the site and described in the Hydrogeologic Report. Two-inch diameter PVC wells were installed in each borehole to screen the shallow bedrock and the overburden, while sealing between the screens with hydrated bentonite. Once completed, the monitoring wells were developed, and the locations and elevations of the wells were surveyed to allow calculation of elevations for top of bedrock and groundwater.

The locations of the borings are shown on Figure 1. The monitoring well logs are included in Appendix B. Information on monitoring wells, piezometers, staff gages, and geotechnical borings are included in Tables 1A through 1D, respectively.

2.2. Evaluation of Groundwater Elevations

To identify seasonal high groundwater elevations within the Phase I area, data recorded from manual measurements and pressure transducer/data loggers were reviewed. The period of record for water level measurements at the site began in June 2018 – refer to Table 2 for the record of manual water level measurements. Based on site measurements, seasonal high groundwater typically occurs in an approximately 7- to 8-week period from late-March to early-May. A summary of the seasonal high values and the corresponding dates is included in Appendix C.

2.3 Evaluation of Drought Conditions

As discussed in Appendix D, NHDES’ 2021 Drought Updates and Resources website⁶, indicated drought conditions persisted in northern New Hampshire in summer 2021, and conditions in Grafton and Coos Counties and elsewhere in northern New Hampshire have been drier than average since mid-2020.

To track drought information for northern New Hampshire in 2021, records from the U.S. Drought Monitor⁷ were reviewed for Coos and Grafton Counties (the Coos-Grafton County line bisects the GSL project property). As an additional line of evidence, U.S. Geological Survey (USGS) flow data⁸ for the Ammonoosuc River in Bethlehem, NH were compiled and reviewed.

3.0 SUMMARY OF FINDINGS

This section provides a summary of findings from the information contained in this Hydrogeologic Supplement.

3.1 Bedrock Surface Elevation

Using the surveyed elevation of the monitoring wells and the observed depth to top of bedrock, an updated bedrock surface plan was prepared (Figure 2). In addition, the locations of the geotechnical borings (B-1 through B-5) installed in 2020 were surveyed

⁶ <https://www.des.nh.gov/climate-and-sustainability/storms-and-emergencies/drought>

⁷ <https://droughtmonitor.unl.edu/>

⁸ https://waterdata.usgs.gov/nwis/uv?site_no=01137500

(refer to Table 1D), and information from these borings has been incorporated into this Hydrogeologic Supplement.

As indicated on Figure 2, the bedrock surface was refined in the vicinity of the new borings.

3.2 Groundwater Elevations

As indicated in Section 2.2. above, the observed seasonal high groundwater elevations at the site occur during the spring (late March to early May), consistent with snowmelt/ground thaw, spring rains, and prior to the onset of evapotranspiration associated with the leaf-out and the growing season.

Using the seasonal high groundwater values, contours developed for the site shown on Figure C.1 were developed as follows:

- The contours outside the Phase I area are based on measurements from May 2020, which are considered representative of seasonal high groundwater at the site.
- The contours within and near the Phase I area were drawn based on the highest elevation groundwater values recorded at each location in the respective period of record, independent of year (other than for the recently installed monitoring well couplets MW-35 through MW-39). The dates of each measurement within Phase I are indicated on Figure C.1.
- For monitoring well couplets MW-35 through MW-39, which were installed in July 2021, the springtime highs were estimated by correcting the August 2021 measurements upward 5.5 feet to account for the observed annual variability, which has been shown to be approximately 5 feet in the Phase I area. Groundwater elevations at MW-35 and MW-37, which have been dry in July through October 2021, were estimated by adding 5.5 feet to the August 2021 elevations measured at MW-35R and MW-37R, respectively.

The contours within the Phase I area shown on Figure C.1 are considered conceptual because they were developed using the highest springtime high values measured at each water table monitoring well, rather than using one set of measurements recorded on a single date. The groundwater table contours within Phase I are therefore considered "conservative" in the sense that not all locations experience a seasonal groundwater high at the same time.

3.3 Evaluation of Drought Conditions

As discussed in Appendix D, the following generally summarizes the observations related to 2021 conditions in northern New Hampshire and the vicinity of the GSL project site:

- According to the U.S. Drought Monitor, fall 2020 was a dry period in both counties with 100% of each county in the "moderate drought" category for several months toward the end of the year, with 90% to 100% of both counties in the "severe drought" category for several weeks in late September 2020 and early October 2020.

- Drought conditions in Coos County in 2021 have been generally more acute than in Grafton County.
 - Coos County indicated up to approximately 20% of the county in "severe drought" July, decreasing to less than 2-3% of the area by August, but continuing through September and October. Approximately 90% of Coos County remained in either "abnormally dry" or "moderate drought" through mid-October.
 - The drought rating did not reach "severe" in Grafton County in summer 2021, and instead the "moderate drought" attenuated toward the end of July and approximately 40% of the county remained "abnormally dry" through approximately mid-September, when the overall area in this category declined to approximately 15% through mid-October.
- Based on USGS stream gage data, the base flows in the Ammonoosuc River indicated that beginning in approximately mid-May 2021, the flow in the Ammonoosuc River was generally below the long-term average for this station until early July, when average daily flows began to generally increase and were above the long-term average from mid-July to early August 2021. From early August to early September, average daily flows in the Ammonoosuc River once again declined below the long-term average. From mid-September until the date of this report (October 24, 2021), flows in the Ammonoosuc increased and were generally consistent with the long-term average.
- The groundwater conditions at the GSL site may not track exactly with the indications of the drought conditions on a county-wide basis. For example, spring 2020 groundwater elevations, measured before an indication of drought in either Coos or Grafton Counties on U.S. Drought Monitor, were in some cases exceeded by groundwater elevations in spring 2021 (e.g., MW-4, MW-5, MW-6, MW-11, MW-12, and MW-21U), when portions of both counties were indicated as "abnormally dry" or in "moderate drought".

Despite potential localized differences, drought conditions as indicated by the U.S. Drought Monitor for Coos and Grafton Counties will continue to be tracked to provide a context to site groundwater elevation measurements.

4.0 CLOSING

Groundwater elevation monitoring is continuing at the site and the record will be periodically updated. Additional hydrogeologic information related to the project are being collected and will be provided to NHDES in future supplemental transmittals.

TABLES

TABLE 1A
Summary of Monitoring Well Information
Granite State Landfill
Dalton, New Hampshire

Monitoring Well	Northing	Easting	Install Date	Top of PVC Elevation (ft AMSL)	Top of Casing Elevation (ft AMSL)	Ground Surface Elevation (ft AMSL)	Diameter (inches)	Installed Top of Screen		Installed Bottom of Screen		Bedrock Depth/ Elevation		Bottom of Boring Depth/Elevation		Stratum Screened
								Depth below ground surface (ft)	Elevation (ft AMSL)	Depth below ground surface (ft)	Elevation (ft AMSL)	Depth below ground surface (ft)	Elevation (ft AMSL)	Depth below ground surface (ft)	Elevation (ft AMSL)	
MW-1	674702.10	975341.02	6/19/2018	1097.41	1097.79	1094.81	2	4.0	1090.8	12.0	1082.8	12.0	1082.8	22.0	1072.8	Overburden
MW-2	674908.96	976617.13	6/20/2018	1141.34	1141.59	1138.65	2	5.3	1133.4	15.3	1123.4	16.0	1122.7	27.0	1111.7	Overburden
MW-3	673765.27	978474.06	6/21/2018	1193.28	1193.57	1190.44	2	6.3	1184.1	13.3	1177.1	13.5	1176.9	25.0	1165.4	Overburden
MW-4	672982.14	977768.44	6/21/2018	1124.46	1124.76	1121.66	2	3.8	1117.9	9.8	1111.9	9.5	1112.2	22.0	1099.7	Overburden
MW-5	673291.77	977542.19	6/22/2018	1150.46	1150.76	1147.69	2	7.0	1140.7	13.0	1134.7	13.0	1134.7	26.0	1121.7	Overburden
MW-6	673685.58	977231.94	6/25/2018	1153.94	1154.21	1151.43	2	4.2	1147.2	12.2	1139.2	12.5	1138.9	22.5	1128.9	Overburden
MW-7	672923.06	977161.35	6/26/2018	1144.31	1144.55	1141.54	2	14.0	1127.5	24.0	1117.5	24.0	1117.5	34.0	1107.5	Overburden
MW-8	671060.44	976810.50	6/26/2018	1115.36	1115.71	1112.67	2	4.5	1108.2	11.5	1101.2	11.8	1100.9	22.5	1090.2	Overburden
MW-9	672056.55	977385.44	6/27/2018	1119.84	1120.18	1117.21	2	4.5	1112.7	14.5	1102.7	15.0	1102.2	25.0	1092.2	Overburden
MW-10	674307.88	976878.92	7/16/2018	1137.48	1137.73	1134.81	2	4.2	1130.6	7.7	1127.1	7.7	1127.1	20.0	1114.8	Overburden
MW-11	674497.71	977100.24	7/17/2018	1142.21	1142.43	1139.39	2	3.8	1135.6	10.8	1128.6	11.0	1128.4	23.0	1116.4	Overburden
MW-12	673753.07	977855.58	7/18/2018	1176.69	1176.96	1173.97	2	3.9	1170.1	9.9	1164.1	10.0	1164.0	20.0	1154.0	Overburden
MW-13	674396.91	977946.69	7/18/2018	1190.91	1191.11	1188.16	2	3.9	1184.3	10.9	1177.3	11.0	1177.2	21.0	1167.2	Overburden
MW-14	674004.56	977468.96	7/19/2018	1155.20	1155.42	1152.37	2	3.9	1148.5	8.9	1143.5	9.0	1143.4	20.0	1132.4	Overburden
MW-15	674822.84	975947.00	10/1/2018	1113.72	1113.93	1111.06	2	4.2	1106.9	7.2	1103.9	7.5	1103.6	18.0	1093.1	Overburden
MW-16	675671.75	975403.70	10/2/2018	1171.35	1171.50	1168.60	2	6.9	1161.7	16.9	1151.7	25.0	1143.6	35.0	1133.6	Overburden
MW-17	675513.15	975244.41	10/3/2018	1144.48	1144.76	1141.81	2	4.1	1137.7	14.1	1127.7	20.0	1121.8	30.0	1111.8	Overburden
MW-18	676070.20	978175.68	10/4/2018	1323.53	1323.79	1320.78	2	7.9	1312.9	12.9	1307.9	13.0	1307.8	24.0	1296.8	Overburden
MW-19	675260.90	978489.95	10/5/2018	1320.01	1320.29	1317.16	2	5.9	1311.3	15.9	1301.3	16.0	1301.2	26.0	1291.2	Overburden
MW-19R	675260.90	978489.95	10/5/2018	1320.01	1320.29	1317.16	2	20.1	1297.1	24.1	1293.1	16.0	1301.2	26.0	1291.2	Bedrock
MW-20	674860.54	978623.35	10/8/2018	1329.49	1329.71	1326.83	2	4.0	1322.8	14.0	1312.8	14.0	1312.8	24.0	1302.8	Overburden
MW-20R	674860.54	978623.35	10/8/2018	1329.49	1329.71	1326.83	2	18.4	1308.4	23.4	1303.4	14.0	1312.8	24.0	1302.8	Bedrock
MW-21U	672645.38	976057.66	11/14/2018	1093.65	1093.81	1090.85	2	16.0	1074.9	26.0	1064.9	45.0	1045.9	55.0	1035.9	Overburden
MW-21L	672645.38	976057.66	11/14/2018	1093.65	1093.81	1090.85	2	30.4	1060.5	40.4	1050.5	45.0	1045.9	55.0	1035.9	Overburden
MW-22	672885.10	976354.92	11/14/2018	1104.12	1104.37	1101.37	2	3.9	1097.5	7.9	1093.5	8.3	1093.1	21.3	1080.1	Overburden
MW-22R	672885.10	976354.92	11/14/2018	1104.12	1104.37	1101.37	2	13.1	1088.3	21.1	1080.3	8.3	1093.1	21.3	1080.1	Bedrock
MW-23	675515.89	976857.85	11/19/2018	1223.37	1223.60	1220.61	2	4.1	1216.5	9.1	1211.5	9.0	1211.6	20.0	1200.6	Overburden
MW-24	675244.24	977577.79	11/20/2018	1230.56	1230.81	1227.77	2	5.7	1222.1	15.7	1212.1	16.0	1211.8	26.0	1201.8	Overburden
MW-25	675880.01	977961.60	9/24/2019	1301.36	1301.63	1298.73	2	4.4	1294.3	9.4	1289.3	9.5	1289.2	19.5	1279.2	Overburden
MW-26	676046.84	978753.24	9/24/2019	1260.45	1260.70	1257.85	2	5.9	1251.9	15.9	1241.9	16.0	1241.8	26.0	1231.8	Overburden
MW-27	674830.52	978741.87	9/26/2019	1344.39	1344.61	1341.74	2	3.8	1337.9	13.8	1327.9	14.0	1327.7	34.0	1307.7	Overburden
MW-27R	674830.52	978741.87	9/26/2019	1344.41	1344.61	1341.74	2	18.2	1323.5	33.2	1308.5	14.0	1327.7	34.0	1307.7	Bedrock
MW-28	674257.28	978753.13	9/27/2019	1265.55	1265.84	1262.92	2	9.1	1253.8	24.1	1238.8	39.0	1223.9	51.5	1211.4	Overburden
MW-28R	674257.28	978753.13	9/27/2019	1265.56	1265.84	1262.92	2	43.9	1219.0	50.9	1212.0	39.0	1223.9	51.5	1211.4	Bedrock
MW-29R	672458.92	978890.43	9/30/2019	1171.65	1171.92	1169.12	2	12.0	1157.1	20.0	1149.1	7.5	1161.6	20.4	1148.7	Bedrock
MW-30R	672339.17	979113.75	9/30/2019	1175.22	1175.48	1172.55	2	14.8	1157.7	19.8	1152.7	10.0	1162.5	20.5	1152.0	Bedrock
MW-31R	672291.40	979297.02	10/1/2019	1172.74	1172.97	1169.89	2	14.4	1155.5	19.4	1150.5	9.5	1160.4	20.5	1149.4	Bedrock
MW-32R	671009.19	979035.65	10/2/2019	1203.24	1203.49	1200.62	2	39.6	1161.0	44.6	1156.0	34.0	1166.6	45.0	1155.6	Bedrock
MW-33R	671079.11	978518.79	10/3/2019	1242.10	1242.33	1239.52	2	25.5	1214.0	30.5	1209.0	19.5	1220.0	31.0	1208.5	Bedrock
MW-34	671322.61	977984.72	10/3/2019	1219.15	1219.46	1216.51	2	6.8	1209.7	12.8	1203.7	13.0	1203.5	24.5	1192.0	Overburden
MW-34R	671322.60	977984.72	10/4/2019	1219.13	1219.42	1216.47	2	19.1	1197.4	24.1	1192.4	13.0	1203.5	24.5	1192.0	Bedrock
MW-35	673375.40	976991.63	7/15/2021	1158.21	1158.46	1155.56	2	2.9	1152.7	7.9	1147.7	7.7	1147.9	35.0	1120.6	Overburden
MW-35R	673375.40	976991.63	7/15/2021	1158.22	1158.46	1155.56	2	17.0	1138.6	32.0	1123.6	7.7	1147.9	35.0	1120.6	Bedrock
MW-36	673513.50	976668.32	7/16/2021	1125.39	1125.69	1122.80	2	3.5	1119.3	8.5	1114.3	8.9	1113.9	25.0	1097.8	Overburden
MW-36R	673513.50	976668.32	7/16/2021	1125.39	1125.69	1122.80	2	14.0	1108.8	24.0	1098.8	8.9	1113.9	25.0	1097.8	Bedrock
MW-37	673267.68	976311.91	7/20/2021	1103.80	1104.12	1101.19	2	4.1	1097.1	8.1	1093.1	8.0	1093.2	30.2	1071.0	Overburden
MW-37R	673267.68	976311.91	7/20/2021	1103.81	1104.12	1101.12	2	15.0	1086.1	30.0	1071.1	8.0	1093.2	30.2	1071.0	Bedrock
MW-38	672719.89	976702.12	7/22/2021	1142.04	1142.35	1139.45	2	15.0	1124.4	30.0	1109.4	63.0	1076.4	80.0	1059.4	Overburden
MW-38R	672719.89	976702.12	7/22/2021	1142.05	1142.35	1139.45	2	68.0	1071.4	78.0	1061.4	63.0	1076.4	80.0	1059.4	Bedrock
MW-39	672347.61	976091.96	7/27/2021	1094.35	1094.63	1091.75	2	7.0	1084.7	17.0	1074.7	40.0	1051.7	60.0	1031.7	Overburden
MW-39R	672347.61	976091.96	7/27/2021	1094.30	1094.63	1091.75	2	45.0	1046.7	55.0	1036.7	40.0	1051.7	60.0	1031.7	Bedrock

Notes:

- Drilling and installation of monitoring wells was performed by Glacier Drilling, LLC of Durham, Connecticut on the following dates: MW-1 through MW-9 June 16 to 27, 2018; MW-10 through MW-14 July 16 to 19, 2018; MW-15 through MW-20R October 1 to 8, 2018; MW-21 through MW-24 November 12 through 21, 2018; MW-25 through MW-34R September 24 to October 4, 2019; MW-35 through MW-39R July 15 to 27, 2021. The borings and monitoring well installations were observed and logged by Sanborn Head. Refer to well construction and boring logs for additional details.
- The reference point, casing and ground elevations are based on a survey performed by Horizons Engineering, Inc. of Littleton, New Hampshire. Elevations are referenced to the NAVD of 1988.
- 'R' indicates a monitoring well is screened in bedrock.
'U' indicates an upper screened interval at a monitoring well couplet.
'L' indicates a lower screened interval at a monitoring well couplet.
- ft AMSL = feet above mean sea level

TABLE 1B
Summary of Piezometer Information
Granite State Landfill
Dalton, New Hampshire

Piezometer	Northing	Easting	Install Date	Top of Casing Elevation (ft AMSL)	Stickup (ft)	Ground Surface Elevation (ft AMSL)	Diameter (inches)	Installed Top of Screen		Installed Bottom of Screen		Stratum Screened
								Depth below ground surface (ft)	Elevation (ft AMSL)	Depth below ground surface (ft)	Elevation (ft AMSL)	
P-1	673054.64	979525.85	10/16/2019	1170.95	3.02	1167.93	1.25	2.1	1165.8	4.1	1163.8	Overburden
P-2	672384.21	980065.26	10/16/2019	1136.00	3.00	1133.00	1.25	2.2	1130.8	4.2	1128.8	Overburden
P-3	673501.57	979515.97	10/16/2019	1172.50	2.98	1169.52	1.25	2.2	1167.4	4.2	1165.4	Overburden
P-4	673714.37	979186.35	10/15/2019	1180.79	2.98	1177.81	1.25	2.2	1175.6	4.2	1173.6	Overburden
P-5	673443.60	978759.97	10/15/2019	1161.33	3.00	1158.33	1.25	2.2	1156.1	4.2	1154.1	Overburden
P-6	673392.74	978929.80	10/15/2019	1165.10	2.97	1162.13	1.25	2.2	1160.0	4.2	1158.0	Overburden
P-7	673295.97	979089.80	10/15/2019	1164.30	2.95	1161.35	1.25	2.1	1159.2	4.1	1157.2	Overburden
P-8	674916.73	979639.78	10/16/2019	1167.36	2.95	1164.41	1.25	2.2	1162.2	4.2	1160.2	Overburden
P-9	674426.55	979729.69	10/16/2019	1179.99	2.97	1177.02	1.25	2.0	1175.1	4.0	1173.1	Overburden
P-10	674081.69	979587.37	10/16/2019	1190.72	2.95	1187.77	1.25	2.2	1185.6	4.2	1183.6	Overburden
P-11	673214.00	979148.87	10/6/2020	1172.74	3.03	1169.71	1.25	2.2	1167.5	4.2	1165.5	Overburden
P-12	673396.18	979564.17	10/6/2020	1170.03	2.99	1167.04	1.25	3.3	1163.8	5.3	1161.8	Overburden
P-13	673495.85	979336.08	10/14/2020	1169.97	3.06	1166.91	1.25	4.2	1162.7	6.2	1160.7	Overburden
P-14	675969.58	976126.24	10/7/2020	1225.83	3.24	1222.59	1.25	5.0	1217.6	7.0	1215.6	Overburden

Notes:

1. The piezometers were installed by Sanborn Head on the dates indicated. The piezometers are constructed of 1.25-inch diameter stainless steel materials.
2. The top of casing elevations are based on a survey performed by Horizons Engineering, Inc. of Littleton, New Hampshire. Elevations are referenced to the NAVD of 1988. Ground surface elevation was measured by Sanborn Head from the surveyed top of casing.
3. ft AMSL = feet above mean sea level

TABLE 1C
Summary of Staff Gage Information
Granite State Landfill
Dalton, New Hampshire

Staff Gage	Northing	Easting	Install Date	Top of Staff Gage Elevation (ft AMSL)
SG-1	674811.54	976910.20	10/2/2019	1134.96
SG-2	673183.95	978917.71	10/3/2019	1156.51
SG-3	672389.79	977554.90	10/3/2019	1102.42
SG-4	672091.82	975302.61	10/2/2019	1016.76
SG-5	673603.19	975286.82	10/2/2019	1068.13
SG-6	674904.35	975933.03	10/3/2019	1108.17
AB-1	674068.93	974583.95	10/2/2019	1068.44
SP-1	674533.90	975490.92	10/3/2019	1091.64

Notes:

1. Staff gages were installed by Sanborn Head on the dates indicated. Staff gages are constructed from steel fence posts driven into the ground. Surface water elevation measurements are made from the top of the staff gage.
2. The location and top of staff gage elevations are based on a survey performed by Horizons Engineering, Inc. of Littleton, New Hampshire. Elevations are referenced to the NAVD of 1988.
3. ft AMSL = feet above mean sea level

TABLE 1D
Summary of Geotechnical Boring Information
Granite State Landfill
Dalton, New Hampshire

Soil Boring	Northing	Easting	Install Date	Ground Surface Elevation (ft AMSL)	Depth to Bedrock (ft bgs)	Bedrock Elevation (ft AMSL)
B-1	672515.01	975997.67	7/13/2020	1086.57	34.1	1052.47
B-2	672730.93	976709.27	7/14/2020	1139.82	65	1074.82
B-3	673344.32	976284.73	7/15/2020	1102.02	7	1095.02
B-4	673157.68	976656.67	7/16/2020	1137.08	19	1118.08
B-5	673785.35	976824.91	7/17/2020	1121.75	7	1114.75
B-6	671687.31	977143.87	10/20/2020	1126.30	4.5	1121.80
B-7	671625.48	977153.83	10/19/2020	1132.00	4.5	1127.50
B-8	671654.65	977199.70	7/20/2020	1130.74	5	1125.74
B-9	671487.63	977226.92	10/19/2020	1142.43	6.3	1136.18
B-10	672184.87	977544.18	10/21/2020	1119.11	11.5	1107.61
B-11	672317.35	978003.70	10/20/2020	1148.26	12	1136.26
B-12	672187.73	977275.00	10/21/2020	1098.91	12	1086.91

Notes:

1. Geotechnical borings were installed by CMA Engineers on the dates indicated.
2. The location and ground surface elevations are based on a survey performed by Horizons Engineering, Inc. of Littleton, New Hampshire. Elevations are referenced to the NAVD of 1988.
3. ft AMSL = feet above mean sea level

TABLE 2
Water Level - Depth and Elevation
Granite State Landfill
Dalton, New Hampshire

Location	Date	Reference Elevation (ft)	Reference Point	Depth to Water (ft)	Water Level Elevation (ft)
Groundwater					
MW-1	06/28/18	1097.41	TPVC	8.22	1089.19
MW-1	10/10/18	1097.41	TPVC	8.61	1088.80
MW-1	09/12/19	1097.41	TPVC	9.16	1088.25
MW-1	10/18/19	1097.41	TPVC	7.89	1089.52
MW-1	11/21/19	1097.41	TPVC	7.53	1089.88
MW-1	02/25/20	1097.41	TPVC	7.53	1089.88
MW-1	05/04/20	1097.41	TPVC	7.25	1090.16
MW-1	08/11/20	1097.41	TPVC	8.48	1088.93
MW-1	10/29/20	1097.41	TPVC	7.72	1089.69
MW-1	04/26/21	1097.41	TPVC	7.32	1090.09
MW-1	09/14/21	1097.41	TPVC	9.00	1088.41
MW-2	06/28/18	1141.34	TPVC	7.50	1133.84
MW-2	10/10/18	1141.34	TPVC	8.90	1132.44
MW-2	09/12/19	1141.34	TPVC	8.52	1132.82
MW-2	10/18/19	1141.34	TPVC	5.73	1135.61
MW-2	11/21/19	1141.34	TPVC	5.47	1135.87
MW-2	02/24/20	1141.34	TPVC	5.91	1135.43
MW-2	05/04/20	1141.34	TPVC	5.18	1136.16
MW-2	08/11/20	1141.34	TPVC	7.69	1133.65
MW-2	10/29/20	1141.34	TPVC	5.89	1135.45
MW-2	04/26/21	1141.34	TPVC	5.30	1136.04
MW-2	09/14/21	1141.34	TPVC	8.60	1132.74
MW-3	06/28/18	1193.28	TPVC	12.04	1181.24
MW-3	10/12/18	1193.28	TPVC	16.31	1176.97
MW-3	09/13/19	1193.28	TPVC	15.34	1177.94
MW-3	10/18/19	1193.28	TPVC	15.57	1177.71
MW-3	11/21/19	1193.28	TPVC	13.57	1179.71
MW-3	02/24/20	1193.28	TPVC	12.74	1180.54
MW-3	05/05/20	1193.28	TPVC	10.33	1182.95
MW-3	08/11/20	1193.28	TPVC	13.17	1180.11
MW-3	10/29/20	1193.28	TPVC	Dry	<1177.14
MW-3	04/26/21	1193.28	TPVC	11.72	1181.56
MW-3	08/13/21	1193.28	TPVC	15.22	1178.06
MW-3	09/14/21	1193.28	TPVC	Dry	<1177.14
MW-4	06/28/18	1124.46	TPVC	8.78	1115.68
MW-4	10/12/18	1124.46	TPVC	9.05	1115.41
MW-4	09/12/19	1124.46	TPVC	9.41	1115.05
MW-4	10/18/19	1124.46	TPVC	8.27	1116.19
MW-4	11/21/19	1124.46	TPVC	8.08	1116.38
MW-4	02/24/20	1124.46	TPVC	8.29	1116.17
MW-4	05/05/20	1124.46	TPVC	7.13	1117.33
MW-4	05/06/20	1124.46	TPVC	7.31	1117.15
MW-4	08/11/20	1124.46	TPVC	9.55	1114.91
MW-4	10/29/20	1124.46	TPVC	7.75	1116.71
MW-4	01/11/21	1124.46	TPVC	8.25	1116.21

TABLE 2
Water Level - Depth and Elevation
Granite State Landfill
Dalton, New Hampshire

Location	Date	Reference Elevation (ft)	Reference Point	Depth to Water (ft)	Water Level Elevation (ft)
MW-4	04/26/21	1124.46	TPVC	7.42	1117.04
MW-4	08/13/21	1124.46	TPVC	9.24	1115.22
MW-4	09/14/21	1124.46	TPVC	9.40	1115.06
MW-4	09/27/21	1124.46	TPVC	9.24	1115.22
MW-5	06/28/18	1150.46	TPVC	5.30	1145.16
MW-5	10/12/18	1150.46	TPVC	5.91	1144.55
MW-5	09/12/19	1150.46	TPVC	6.56	1143.90
MW-5	10/18/19	1150.46	TPVC	5.16	1145.30
MW-5	11/21/19	1150.46	TPVC	5.08	1145.38
MW-5	02/24/20	1150.46	TPVC	5.63	1144.83
MW-5	05/04/20	1150.46	TPVC	4.31	1146.15
MW-5	08/11/20	1150.46	TPVC	6.79	1143.67
MW-5	10/29/20	1150.46	TPVC	5.14	1145.32
MW-5	01/11/21	1150.46	TPVC	5.47	1144.99
MW-5	04/26/21	1150.46	TPVC	4.44	1146.02
MW-5	08/02/21	1150.46	TPVC	5.22	1145.24
MW-5	08/04/21	1150.46	TPVC	5.70	1144.76
MW-5	08/13/21	1150.46	TPVC	6.52	1143.94
MW-5	09/14/21	1150.46	TPVC	6.71	1143.75
MW-5	09/17/21	1150.46	TPVC	5.75	1144.71
MW-5	09/27/21	1150.46	TPVC	6.43	1144.03
MW-6	06/28/18	1153.94	TPVC	10.18	1143.76
MW-6	10/12/18	1153.94	TPVC	11.18	1142.76
MW-6	09/12/19	1153.94	TPVC	11.37	1142.57
MW-6	10/18/19	1153.94	TPVC	8.53	1145.41
MW-6	11/21/19	1153.94	TPVC	8.26	1145.68
MW-6	02/25/20	1153.94	TPVC	8.89	1145.05
MW-6	05/05/20	1153.94	TPVC	7.28	1146.66
MW-6	08/11/20	1153.94	TPVC	9.96	1143.98
MW-6	10/29/20	1153.94	TPVC	8.12	1145.82
MW-6	01/11/21	1153.94	TPVC	8.24	1145.70
MW-6	04/26/21	1153.94	TPVC	7.58	1146.36
MW-6	08/02/21	1153.94	TPVC	10.01	1143.93
MW-6	08/13/21	1153.94	TPVC	10.23	1143.71
MW-6	09/14/21	1153.94	TPVC	10.92	1143.02
MW-6	09/17/21	1153.94	TPVC	10.78	1143.16
MW-6	09/27/21	1153.94	TPVC	10.53	1143.41
MW-7	06/28/18	1144.31	TPVC	10.49	1133.82
MW-7	10/12/18	1144.31	TPVC	14.49	1129.82
MW-7	09/12/19	1144.31	TPVC	12.63	1131.68
MW-7	10/18/19	1144.31	TPVC	11.73	1132.58
MW-7	11/21/19	1144.31	TPVC	10.76	1133.55
MW-7	02/25/20	1144.31	TPVC	10.20	1134.11
MW-7	05/05/20	1144.31	TPVC	7.65	1136.66
MW-7	08/11/20	1144.31	TPVC	10.80	1133.51
MW-7	10/29/20	1144.31	TPVC	11.60	1132.71
MW-7	04/26/21	1144.31	TPVC	8.78	1135.53

TABLE 2
Water Level - Depth and Elevation
Granite State Landfill
Dalton, New Hampshire

Location	Date	Reference Elevation (ft)	Reference Point	Depth to Water (ft)	Water Level Elevation (ft)
MW-7	08/02/21	1144.31	TPVC	12.00	1132.31
MW-7	08/13/21	1144.31	TPVC	12.29	1132.02
MW-7	09/14/21	1144.31	TPVC	13.45	1130.86
MW-7	09/17/21	1144.31	TPVC	13.61	1130.70
MW-8	06/28/18	1115.36	TPVC	11.01	1104.35
MW-8	10/12/18	1115.36	TPVC	10.73	1104.63
MW-8	09/12/19	1115.36	TPVC	11.01	1104.35
MW-8	10/18/19	1115.36	TPVC	9.15	1106.21
MW-8	11/22/19	1115.36	TPVC	9.74	1105.62
MW-8	02/24/20	1115.36	TPVC	10.67	1104.69
MW-8	05/04/20	1115.36	TPVC	8.66	1106.70
MW-8	08/11/20	1115.36	TPVC	11.15	1104.21
MW-8	10/29/20	1115.36	TPVC	9.22	1106.14
MW-8	04/26/21	1115.36	TPVC	9.01	1106.35
MW-8	09/14/21	1115.36	TPVC	11.37	1103.99
MW-9	06/28/18	1119.84	TPVC	12.71	1107.13
MW-9	10/12/18	1119.84	TPVC	12.76	1107.08
MW-9	09/12/19	1119.84	TPVC	13.21	1106.63
MW-9	10/18/19	1119.84	TPVC	11.19	1108.65
MW-9	11/21/19	1119.84	TPVC	12.24	1107.60
MW-9	02/24/20	1119.84	TPVC	13.12	1106.72
MW-9	05/04/20	1119.84	TPVC	12.20	1107.64
MW-9	08/11/20	1119.84	TPVC	12.61	1107.23
MW-9	10/29/20	1119.84	TPVC	10.71	1109.13
MW-9	04/26/21	1119.84	TPVC	12.31	1107.53
MW-9	09/14/21	1119.84	TPVC	12.82	1107.02
MW-10	07/20/18	1137.48	TPVC	9.35	1128.13
MW-10	10/10/18	1137.48	TPVC	9.31	1128.17
MW-10	09/12/19	1137.48	TPVC	9.99	1127.49
MW-10	10/18/19	1137.48	TPVC	8.33	1129.15
MW-10	11/21/19	1137.48	TPVC	7.95	1129.53
MW-10	02/25/20	1137.48	TPVC	8.08	1129.40
MW-10	05/04/20	1137.48	TPVC	6.75	1130.73
MW-10	08/11/20	1137.48	TPVC	9.21	1128.27
MW-10	10/29/20	1137.48	TPVC	8.09	1129.39
MW-10	04/26/21	1137.48	TPVC	7.08	1130.40
MW-10	08/13/21	1137.48	TPVC	9.45	1128.03
MW-10	09/14/21	1137.48	TPVC	9.96	1127.52
MW-11	07/20/18	1142.21	TPVC	8.32	1133.89
MW-11	10/10/18	1142.21	TPVC	8.16	1134.05
MW-11	09/12/19	1142.21	TPVC	8.85	1133.36
MW-11	10/18/19	1142.21	TPVC	6.69	1135.52
MW-11	11/21/19	1142.21	TPVC	6.28	1135.93
MW-11	02/25/20	1142.21	TPVC	6.72	1135.49
MW-11	05/04/20	1142.21	TPVC	5.97	1136.24
MW-11	08/11/20	1142.21	TPVC	8.48	1133.73
MW-11	10/29/20	1142.21	TPVC	6.49	1135.72

TABLE 2
Water Level - Depth and Elevation
Granite State Landfill
Dalton, New Hampshire

Location	Date	Reference Elevation (ft)	Reference Point	Depth to Water (ft)	Water Level Elevation (ft)
MW-11	04/26/21	1142.21	TPVC	5.92	1136.29
MW-11	08/13/21	1142.21	TPVC	7.75	1134.46
MW-11	09/14/21	1142.21	TPVC	8.39	1133.82
MW-11	09/17/21	1142.21	TPVC	7.72	1134.49
MW-12	07/20/18	1176.69	TPVC	9.75	1166.94
MW-12	10/12/18	1176.69	TPVC	11.29	1165.40
MW-12	09/12/19	1176.69	TPVC	10.50	1166.19
MW-12	10/18/19	1176.69	TPVC	8.02	1168.67
MW-12	11/21/19	1176.69	TPVC	7.16	1169.53
MW-12	02/24/20	1176.69	TPVC	7.24	1169.45
MW-12	05/05/20	1176.69	TPVC	6.20	1170.49
MW-12	08/11/20	1176.69	TPVC	9.03	1167.66
MW-12	10/29/20	1176.69	TPVC	7.88	1168.81
MW-12	01/11/21	1176.69	TPVC	7.06	1168.81
MW-12	04/26/21	1176.69	TPVC	6.39	1170.30
MW-12	08/02/21	1176.69	TPVC	9.31	1167.38
MW-12	08/04/21	1176.69	TPVC	9.19	1167.50
MW-12	08/13/21	1176.69	TPVC	9.70	1166.99
MW-12	09/14/21	1176.69	TPVC	10.60	1166.09
MW-12	09/17/21	1176.69	TPVC	10.50	1166.19
MW-12	09/27/21	1176.69	TPVC	10.46	1166.23
MW-13	07/20/18	1190.91	TPVC	8.60	1182.31
MW-13	10/12/18	1190.91	TPVC	8.96	1181.95
MW-13	09/12/19	1190.91	TPVC	9.19	1181.72
MW-13	10/18/19	1190.91	TPVC	7.66	1183.25
MW-13	11/21/19	1190.91	TPVC	7.36	1183.55
MW-13	02/24/20	1190.91	TPVC	7.51	1183.40
MW-13	05/05/20	1190.91	TPVC	7.01	1183.90
MW-13	08/11/20	1190.91	TPVC	8.92	1181.99
MW-13	10/29/20	1190.91	TPVC	7.58	1183.33
MW-13	04/26/21	1190.91	TPVC	7.05	1183.86
MW-13	08/02/21	1190.91	TPVC	7.96	1182.95
MW-13	08/04/21	1190.91	TPVC	7.92	1182.99
MW-13	08/13/21	1190.91	TPVC	8.57	1182.34
MW-13	09/14/21	1190.91	TPVC	8.86	1182.05
MW-13	09/27/21	1190.91	TPVC	8.36	1182.55
MW-14	07/20/18	1155.20	TPVC	6.88	1148.32
MW-14	10/12/18	1155.20	TPVC	4.95	1150.25
MW-14	09/12/19	1155.20	TPVC	6.33	1148.87
MW-14	10/18/19	1155.20	TPVC	5.01	1150.19
MW-14	11/21/19	1155.20	TPVC	4.91	1150.29
MW-14	02/25/20	1155.20	TPVC	5.25	1149.95
MW-14	05/04/20	1155.20	TPVC	5.22	1149.98
MW-14	05/06/20	1155.20	TPVC	5.21	1149.99
MW-14	08/11/20	1155.20	TPVC	7.12	1148.08
MW-14	10/29/20	1155.20	TPVC	5.09	1150.11
MW-14	01/11/21	1155.20	TPVC	5.37	1149.83

TABLE 2
Water Level - Depth and Elevation
Granite State Landfill
Dalton, New Hampshire

Location	Date	Reference Elevation (ft)	Reference Point	Depth to Water (ft)	Water Level Elevation (ft)
MW-14	04/26/21	1155.20	TPVC	5.02	1150.18
MW-14	08/02/21	1155.20	TPVC	4.79	1150.41
MW-14	08/13/21	1155.20	TPVC	6.10	1149.10
MW-14	09/14/21	1155.20	TPVC	6.07	1149.13
MW-14	09/17/21	1155.20	TPVC	5.22	1149.98
MW-14	09/27/21	1155.20	TPVC	5.54	1149.66
MW-15	10/10/18	1113.72	TPVC	6.84	1106.88
MW-15	09/12/19	1113.72	TPVC	7.11	1106.61
MW-15	10/18/19	1113.72	TPVC	6.34	1107.38
MW-15	11/21/19	1113.72	TPVC	6.45	1107.27
MW-15	02/24/20	1113.72	TPVC	6.95	1106.77
MW-15	05/04/20	1113.72	TPVC	6.22	1107.50
MW-15	08/11/20	1113.72	TPVC	7.30	1106.42
MW-15	10/29/20	1113.72	TPVC	6.28	1107.44
MW-15	04/26/21	1113.72	TPVC	6.28	1107.44
MW-15	09/14/21	1113.72	TPVC	7.16	1106.56
MW-16	10/10/18	1171.35	TPVC	14.51	1156.84
MW-16	09/12/19	1171.35	TPVC	13.37	1157.98
MW-16	10/18/19	1171.35	TPVC	13.24	1158.11
MW-16	11/21/19	1171.35	TPVC	10.08	1161.27
MW-16	02/24/20	1171.35	TPVC	9.36	1161.99
MW-16	05/04/20	1171.35	TPVC	8.31	1163.04
MW-16	08/11/20	1171.35	TPVC	11.63	1159.72
MW-16	10/29/20	1171.35	TPVC	13.19	1158.16
MW-16	04/26/21	1171.35	TPVC	8.60	1162.75
MW-16	09/14/21	1171.35	TPVC	14.31	1157.04
MW-17	10/10/18	1144.48	TPVC	8.97	1135.51
MW-17	09/12/19	1144.48	TPVC	9.18	1135.30
MW-17	10/18/19	1144.48	TPVC	8.27	1136.21
MW-17	11/21/19	1144.48	TPVC	7.57	1136.91
MW-17	02/24/20	1144.48	TPVC	7.32	1137.16
MW-17	05/04/20	1144.48	TPVC	6.26	1138.22
MW-17	08/11/20	1144.48	TPVC	8.52	1135.96
MW-17	10/29/20	1144.48	TPVC	7.67	1136.81
MW-17	04/26/21	1144.48	TPVC	6.43	1138.05
MW-17	09/14/21	1144.48	TPVC	9.38	1135.10
MW-18	10/12/18	1323.53	TPVC	12.88	1310.65
MW-18	09/12/19	1323.53	TPVC	13.09	1310.44
MW-18	10/18/19	1323.53	TPVC	11.87	1311.66
MW-18	11/21/19	1323.53	TPVC	10.94	1312.59
MW-18	02/24/20	1323.53	TPVC	11.26	1312.27
MW-18	05/05/20	1323.53	TPVC	10.34	1313.19
MW-18	05/06/20	1323.53	TPVC	10.40	1313.13
MW-18	08/11/20	1323.53	TPVC	11.87	1311.66
MW-18	10/29/20	1323.53	TPVC	11.54	1311.99
MW-18	04/26/21	1323.53	TPVC	10.38	1313.15
MW-18	09/14/21	1323.53	TPVC	12.94	1310.59

TABLE 2
Water Level - Depth and Elevation
Granite State Landfill
Dalton, New Hampshire

Location	Date	Reference Elevation (ft)	Reference Point	Depth to Water (ft)	Water Level Elevation (ft)
MW-19	10/12/18	1320.01	TPVC	18.45	1301.56
MW-19	09/12/19	1320.01	TPVC	18.74	1301.27
MW-19	10/18/19	1320.01	TPVC	18.79	1301.22
MW-19	11/21/19	1320.01	TPVC	18.20	1301.81
MW-19	02/24/20	1320.01	TPVC	18.31	1301.70
MW-19	05/05/20	1320.01	TPVC	17.29	1302.72
MW-19	08/11/20	1320.01	TPVC	18.64	1301.37
MW-19	10/29/20	1320.01	TPVC	18.89	1301.12
MW-19	04/26/21	1320.01	TPVC	17.79	1302.22
MW-19	09/14/21	1320.01	TPVC	Dry	<1301.26
MW-19R	10/12/18	1320.01	TPVC	24.49	1295.52
MW-19R	09/13/19	1320.01	TPVC	23.02	1296.99
MW-19R	10/18/19	1320.01	TPVC	24.30	1295.71
MW-19R	11/21/19	1320.01	TPVC	20.94	1299.07
MW-19R	02/24/20	1320.01	TPVC	20.96	1299.05
MW-19R	05/05/20	1320.01	TPVC	19.60	1300.41
MW-19R	08/11/20	1320.01	TPVC	21.14	1298.87
MW-19R	10/29/20	1320.01	TPVC	24.49	1295.52
MW-19R	04/26/21	1320.01	TPVC	20.14	1299.87
MW-19R	09/14/21	1320.01	TPVC	23.78	1296.23
MW-20	10/12/18	1329.49	TPVC	16.71	1312.78
MW-20	09/12/19	1329.49	TPVC	16.75	1312.74
MW-20	10/18/19	1329.49	TPVC	16.07	1313.42
MW-20	11/21/19	1329.49	TPVC	15.82	1313.67
MW-20	02/24/20	1329.49	TPVC	15.60	1313.89
MW-20	05/05/20	1329.49	TPVC	13.50	1315.99
MW-20	08/11/20	1329.49	TPVC	16.15	1313.34
MW-20	10/29/20	1329.49	TPVC	15.79	1313.70
MW-20	04/26/21	1329.49	TPVC	14.15	1315.34
MW-20	09/14/21	1329.49	TPVC	Dry	<1312.83
MW-20	09/27/21	1329.49	TPVC	16.75	1312.74
MW-20R	10/12/18	1329.49	TPVC	17.26	1312.23
MW-20R	09/13/19	1329.49	TPVC	17.32	1312.17
MW-20R	10/18/19	1329.49	TPVC	16.82	1312.67
MW-20R	11/21/19	1329.49	TPVC	16.35	1313.14
MW-20R	02/24/20	1329.49	TPVC	15.89	1313.60
MW-20R	05/05/20	1329.49	TPVC	14.41	1315.08
MW-20R	05/06/20	1329.49	TPVC	14.46	1315.03
MW-20R	08/11/20	1329.49	TPVC	16.08	1313.41
MW-20R	10/29/20	1329.49	TPVC	16.41	1313.08
MW-20R	04/26/21	1329.49	TPVC	14.57	1314.92
MW-20R	09/14/21	1329.49	TPVC	17.43	1312.06
MW-20R	09/27/21	1329.49	TPVC	17.50	1311.99
MW-21L	11/29/18	1093.65	TPVC	26.06	1067.59
MW-21L	12/03/18	1093.65	TPVC	25.95	1067.70
MW-21L	09/12/19	1093.65	TPVC	26.91	1066.74
MW-21L	10/18/19	1093.65	TPVC	25.17	1068.48

TABLE 2
Water Level - Depth and Elevation
Granite State Landfill
Dalton, New Hampshire

Location	Date	Reference Elevation (ft)	Reference Point	Depth to Water (ft)	Water Level Elevation (ft)
MW-21L	11/21/19	1093.65	TPVC	25.00	1068.65
MW-21L	02/25/20	1093.65	TPVC	25.26	1068.39
MW-21L	05/04/20	1093.65	TPVC	23.38	1070.27
MW-21L	08/11/20	1093.65	TPVC	25.66	1067.99
MW-21L	10/29/20	1093.65	TPVC	25.27	1068.38
MW-21L	11/27/20	1093.65	TPVC	25.08	1068.57
MW-21L	01/11/21	1093.65	TPVC	24.89	1068.76
MW-21L	04/26/21	1093.65	TPVC	24.64	1069.01
MW-21L	08/02/21	1093.65	TPVC	26.20	1067.45
MW-21L	08/13/21	1093.65	TPVC	26.56	1067.09
MW-21L	09/14/21	1093.65	TPVC	27.45	1066.20
MW-21L	09/27/21	1093.65	TPVC	27.31	1066.34
MW-21U	11/29/18	1093.65	TPVC	17.47	1076.18
MW-21U	12/03/18	1093.65	TPVC	17.22	1076.43
MW-21U	09/13/19	1093.65	TPVC	16.96	1076.69
MW-21U	10/18/19	1093.65	TPVC	15.83	1077.82
MW-21U	11/21/19	1093.65	TPVC	15.85	1077.80
MW-21U	02/25/20	1093.65	TPVC	16.18	1077.47
MW-21U	05/05/20	1093.65	TPVC	13.85	1079.80
MW-21U	05/06/20	1093.65	TPVC	13.76	1079.89
MW-21U	08/11/20	1093.65	TPVC	15.93	1077.72
MW-21U	10/29/20	1093.65	TPVC	15.31	1078.34
MW-21U	11/27/20	1093.65	TPVC	15.37	1078.28
MW-21U	01/11/21	1093.65	TPVC	15.39	1078.26
MW-21U	04/26/21	1093.65	TPVC	15.23	1078.42
MW-21U	08/02/21	1093.65	TPVC	16.50	1077.15
MW-21U	08/13/21	1093.65	TPVC	16.69	1076.96
MW-21U	09/14/21	1093.65	TPVC	17.49	1076.16
MW-21U	09/17/21	1093.65	TPVC	21.82	1071.83
MW-21U	09/27/21	1093.65	TPVC	17.45	1076.20
MW-22	11/29/18	1104.12	TPVC	Dry	<1093.47
MW-22	12/03/18	1104.12	TPVC	10.18	1093.94
MW-22	09/12/19	1104.12	TPVC	10.81	1093.31
MW-22	10/18/19	1104.12	TPVC	7.80	1096.32
MW-22	11/21/19	1104.12	TPVC	7.49	1096.63
MW-22	02/25/20	1104.12	TPVC	7.29	1096.83
MW-22	05/04/20	1104.12	TPVC	5.82	1098.30
MW-22	08/11/20	1104.12	TPVC	9.25	1094.87
MW-22	10/07/20	1104.12	TPVC	Dry	<1093.47
MW-22	10/29/20	1104.12	TPVC	8.15	1095.97
MW-22	11/27/20	1104.12	TPVC	7.99	1096.13
MW-22	01/11/21	1104.12	TPVC	8.33	1095.79
MW-22	04/26/21	1104.12	TPVC	7.09	1097.03
MW-22	08/02/21	1104.12	TPVC	10.02	1094.10
MW-22	08/13/21	1104.12	TPVC	Dry	<1093.47
MW-22	09/14/21	1104.12	TPVC	Dry	<1093.47
MW-22	09/27/21	1104.12	TPVC	Dry	<1093.47

TABLE 2
Water Level - Depth and Elevation
Granite State Landfill
Dalton, New Hampshire

Location	Date	Reference Elevation (ft)	Reference Point	Depth to Water (ft)	Water Level Elevation (ft)
MW-22R	11/29/18	1104.12	TPVC	17.11	1087.01
MW-22R	12/03/18	1104.12	TPVC	16.62	1087.50
MW-22R	09/12/19	1104.12	TPVC	16.75	1087.37
MW-22R	10/18/19	1104.12	TPVC	14.72	1089.40
MW-22R	11/21/19	1104.12	TPVC	14.64	1089.48
MW-22R	02/25/20	1104.12	TPVC	14.74	1089.38
MW-22R	05/04/20	1104.12	TPVC	12.66	1091.46
MW-22R	08/11/20	1104.12	TPVC	15.04	1089.08
MW-22R	10/06/20	1104.12	TPVC	19.51	1084.61
MW-22R	10/07/20	1104.12	TPVC	19.52	1084.60
MW-22R	10/29/20	1104.12	TPVC	15.48	1088.64
MW-22R	11/27/20	1104.12	TPVC	15.42	1088.70
MW-22R	01/11/21	1104.12	TPVC	15.35	1088.77
MW-22R	04/26/21	1104.12	TPVC	14.68	1089.44
MW-22R	08/02/21	1104.12	TPVC	16.30	1087.82
MW-22R	08/13/21	1104.12	TPVC	16.86	1087.26
MW-22R	09/14/21	1104.12	TPVC	18.12	1086.00
MW-22R	09/27/21	1104.12	TPVC	17.70	1086.42
MW-23	11/29/18	1223.37	TPVC	11.08	1212.29
MW-23	09/12/19	1223.37	TPVC	11.62	1211.75
MW-23	10/18/19	1223.37	TPVC	9.06	1214.31
MW-23	11/21/19	1223.37	TPVC	7.48	1215.89
MW-23	02/24/20	1223.37	TPVC	7.90	1215.47
MW-23	05/04/20	1223.37	TPVC	6.62	1216.75
MW-23	08/11/20	1223.37	TPVC	9.97	1213.40
MW-23	10/29/20	1223.37	TPVC	8.75	1214.62
MW-23	04/26/21	1223.37	TPVC	6.71	1216.66
MW-23	09/14/21	1223.37	TPVC	Dry	<1211.51
MW-24	11/29/18	1230.56	TPVC	11.78	1218.78
MW-24	12/03/18	1230.56	TPVC	11.64	1218.92
MW-24	09/12/19	1230.56	TPVC	14.85	1215.71
MW-24	10/18/19	1230.56	TPVC	9.99	1220.57
MW-24	11/21/19	1230.56	TPVC	9.90	1220.66
MW-24	02/24/20	1230.56	TPVC	10.79	1219.77
MW-24	05/04/20	1230.56	TPVC	8.51	1222.05
MW-24	05/06/20	1230.56	TPVC	8.78	1221.78
MW-24	08/11/20	1230.56	TPVC	12.02	1218.54
MW-24	10/29/20	1230.56	TPVC	10.64	1219.92
MW-24	04/26/21	1230.56	TPVC	8.53	1222.03
MW-24	09/14/21	1230.56	TPVC	18.11	1212.45
MW-25	10/14/19	1301.36	TPVC	5.27	1296.09
MW-25	10/18/19	1301.36	TPVC	4.83	1296.53
MW-25	11/21/19	1301.36	TPVC	4.50	1296.86
MW-25	02/24/20	1301.36	TPVC	4.85	1296.51
MW-25	05/06/20	1301.36	TPVC	4.42	1296.94
MW-25	08/11/20	1301.36	TPVC	6.87	1294.49
MW-25	10/29/20	1301.36	TPVC	4.92	1296.44

TABLE 2
Water Level - Depth and Elevation
Granite State Landfill
Dalton, New Hampshire

Location	Date	Reference Elevation (ft)	Reference Point	Depth to Water (ft)	Water Level Elevation (ft)
MW-25	04/26/21	1301.36	TPVC	4.23	1297.13
MW-25	09/14/21	1301.36	TPVC	7.72	1293.64
MW-26	10/14/19	1260.45	TPVC	9.27	1251.18
MW-26	10/18/19	1260.45	TPVC	9.71	1250.74
MW-26	11/21/19	1260.45	TPVC	6.14	1254.31
MW-26	02/24/20	1260.45	TPVC	8.84	1251.61
MW-26	05/06/20	1260.45	TPVC	2.86	1257.59
MW-26	08/11/20	1260.45	TPVC	6.92	1253.53
MW-26	10/29/20	1260.45	TPVC	9.31	1251.14
MW-26	04/26/21	1260.45	TPVC	3.10	1257.35
MW-26	09/14/21	1260.45	TPVC	10.36	1250.09
MW-27	10/14/19	1344.39	TPVC	Dry	<1327.94
MW-27	10/18/19	1344.39	TPVC	Dry	<1327.94
MW-27	11/21/19	1344.39	TPVC	16.25	1328.14
MW-27	02/24/20	1344.39	TPVC	Dry	<1327.94
MW-27	05/06/20	1344.39	TPVC	16.00	1328.39
MW-27	08/11/20	1344.39	TPVC	16.61	1327.78
MW-27	10/29/20	1344.39	TPVC	Dry	<1327.94
MW-27	04/26/21	1344.39	TPVC	16.14	1328.25
MW-27	09/14/21	1344.39	TPVC	Dry	<1327.94
MW-27	09/27/21	1344.39	TPVC	Dry	<1327.94
MW-27R	10/14/19	1344.41	TPVC	18.33	1326.08
MW-27R	10/18/19	1344.41	TPVC	18.03	1326.38
MW-27R	11/21/19	1344.41	TPVC	17.36	1327.05
MW-27R	02/24/20	1344.41	TPVC	17.77	1326.64
MW-27R	05/06/20	1344.41	TPVC	17.10	1327.31
MW-27R	08/11/20	1344.41	TPVC	17.93	1326.48
MW-27R	10/29/20	1344.41	TPVC	18.83	1325.58
MW-27R	04/26/21	1344.41	TPVC	17.44	1326.97
MW-27R	09/14/21	1344.41	TPVC	18.77	1325.64
MW-27R	09/27/21	1344.41	TPVC	18.67	1325.74
MW-28	10/14/19	1265.55	TPVC	Dry	<1238.82
MW-28	10/18/19	1265.55	TPVC	Dry	<1238.82
MW-28	11/21/19	1265.55	TPVC	Dry	<1238.82
MW-28	02/24/20	1265.55	TPVC	Dry	<1238.82
MW-28	05/06/20	1265.55	TPVC	Dry	<1238.82
MW-28	08/11/20	1265.55	TPVC	Dry	<1238.82
MW-28	10/29/20	1265.55	TPVC	Dry	<1238.82
MW-28	04/26/21	1265.55	TPVC	Dry	<1238.82
MW-28	09/14/21	1265.55	TPVC	Dry	<1238.82
MW-28	09/27/21	1265.55	TPVC	Dry	<1238.82
MW-28R	10/14/19	1265.56	TPVC	32.56	1233.00
MW-28R	10/18/19	1265.56	TPVC	32.67	1232.89
MW-28R	11/21/19	1265.56	TPVC	32.79	1232.77
MW-28R	02/24/20	1265.56	TPVC	29.99	1235.57
MW-28R	05/06/20	1265.56	TPVC	28.91	1236.65
MW-28R	08/11/20	1265.56	TPVC	30.84	1234.72

TABLE 2
Water Level - Depth and Elevation
Granite State Landfill
Dalton, New Hampshire

Location	Date	Reference Elevation (ft)	Reference Point	Depth to Water (ft)	Water Level Elevation (ft)
MW-28R	10/29/20	1265.56	TPVC	33.32	1232.24
MW-28R	04/26/21	1265.56	TPVC	30.38	1235.18
MW-28R	09/14/21	1265.56	TPVC	32.22	1233.34
MW-28R	09/27/21	1265.56	TPVC	32.50	1233.06
MW-29R	10/14/19	1171.65	TPVC	13.17	1158.48
MW-29R	10/18/19	1171.65	TPVC	13.52	1158.13
MW-29R	11/22/19	1171.65	TPVC	13.62	1158.03
MW-29R	02/24/20	1171.65	TPVC	13.75	1157.90
MW-29R	05/06/20	1171.65	TPVC	12.66	1158.99
MW-29R	08/11/20	1171.65	TPVC	14.13	1157.52
MW-29R	10/29/20	1171.65	TPVC	13.42	1158.23
MW-29R	04/26/21	1171.65	TPVC	12.86	1158.79
MW-29R	09/14/21	1171.65	TPVC	16.48	1155.17
MW-30R	10/14/19	1175.22	TPVC	12.40	1162.82
MW-30R	10/18/19	1175.22	TPVC	12.88	1162.34
MW-30R	11/22/19	1175.22	TPVC	13.04	1162.18
MW-30R	02/24/20	1175.22	TPVC	13.21	1162.01
MW-30R	05/06/20	1175.22	TPVC	12.30	1162.92
MW-30R	08/11/20	1175.22	TPVC	13.53	1161.69
MW-30R	10/29/20	1175.22	TPVC	12.72	1162.50
MW-30R	04/26/21	1175.22	TPVC	12.58	1162.64
MW-30R	09/14/21	1175.22	TPVC	13.75	1161.47
MW-31R	10/14/19	1172.74	TPVC	15.06	1157.68
MW-31R	10/18/19	1172.74	TPVC	15.13	1157.61
MW-31R	11/22/19	1172.74	TPVC	14.89	1157.85
MW-31R	02/24/20	1172.74	TPVC	15.07	1157.67
MW-31R	05/06/20	1172.74	TPVC	14.44	1158.30
MW-31R	08/11/20	1172.74	TPVC	15.69	1157.05
MW-31R	10/29/20	1172.74	TPVC	15.15	1157.59
MW-31R	04/26/21	1172.74	TPVC	14.59	1158.15
MW-31R	09/14/21	1172.74	TPVC	15.08	1157.66
MW-32R	10/14/19	1203.24	TPVC	27.52	1175.72
MW-32R	10/18/19	1203.24	TPVC	44.50	1158.74
MW-32R	11/22/19	1203.24	TPVC	34.83	1168.41
MW-32R	02/24/20	1203.24	TPVC	27.02	1176.22
MW-32R	05/06/20	1203.24	TPVC	25.68	1177.56
MW-32R	08/11/20	1203.24	TPVC	28.55	1174.69
MW-32R	10/29/20	1203.24	TPVC	30.37	1172.87
MW-32R	04/26/21	1203.24	TPVC	26.88	1176.36
MW-32R	09/14/21	1203.24	TPVC	28.68	1174.56
MW-33R	10/14/19	1242.10	TPVC	25.40	1216.70
MW-33R	10/18/19	1242.10	TPVC	26.83	1215.27
MW-33R	11/22/19	1242.10	TPVC	26.12	1215.98
MW-33R	02/24/20	1242.10	TPVC	25.02	1217.08
MW-33R	05/06/20	1242.10	TPVC	24.79	1217.31
MW-33R	08/11/20	1242.10	TPVC	26.40	1215.70
MW-33R	10/29/20	1242.10	TPVC	26.91	1215.19

TABLE 2
Water Level - Depth and Elevation
Granite State Landfill
Dalton, New Hampshire

Location	Date	Reference Elevation (ft)	Reference Point	Depth to Water (ft)	Water Level Elevation (ft)
MW-33R	04/26/21	1242.10	TPVC	24.70	1217.40
MW-33R	09/14/21	1242.10	TPVC	26.66	1215.44
MW-34	10/14/19	1219.15	TPVC	11.97	1207.18
MW-34	10/18/19	1219.15	TPVC	12.06	1207.09
MW-34	11/22/19	1219.15	TPVC	11.75	1207.40
MW-34	02/24/20	1219.15	TPVC	11.25	1207.90
MW-34	05/06/20	1219.15	TPVC	10.29	1208.86
MW-34	08/11/20	1219.15	TPVC	12.06	1207.09
MW-34	10/29/20	1219.15	TPVC	12.14	1207.01
MW-34	04/26/21	1219.15	TPVC	10.64	1208.51
MW-34	09/14/21	1219.15	TPVC	12.67	1206.48
MW-34R	10/14/19	1219.13	TPVC	11.70	1207.43
MW-34R	10/18/19	1219.13	TPVC	22.00	1197.13
MW-34R	11/22/19	1219.13	TPVC	11.27	1207.86
MW-34R	02/24/20	1219.13	TPVC	10.40	1208.73
MW-34R	05/06/20	1219.13	TPVC	9.38	1209.75
MW-34R	08/11/20	1219.13	TPVC	11.29	1207.84
MW-34R	10/29/20	1219.13	TPVC	12.30	1206.83
MW-34R	04/26/21	1219.13	TPVC	9.89	1209.24
MW-34R	09/14/21	1219.13	TPVC	12.23	1206.90
MW-35	08/02/21	1158.21	TPVC	Dry	<1147.66
MW-35	08/13/21	1158.21	TPVC	Dry	<1147.66
MW-35	09/14/21	1158.21	TPVC	Dry	<1147.66
MW-35	09/27/21	1158.21	TPVC	Dry	<1147.66
MW-35R	08/02/21	1158.22	TPVC	17.21	1141.01
MW-35R	08/13/21	1158.22	TPVC	17.37	1140.85
MW-35R	09/14/21	1158.22	TPVC	18.64	1139.58
MW-35R	09/17/21	1158.22	TPVC	19.23	1138.99
MW-35R	09/27/21	1158.22	TPVC	19.20	1139.02
MW-35R	10/11/21	1158.22	TPVC	19.37	1138.85
MW-36	08/02/21	1125.39	TPVC	10.90	1114.49
MW-36	08/13/21	1125.39	TPVC	11.30	1114.09
MW-36	09/14/21	1125.39	TPVC	Dry	<1114.30
MW-36	09/27/21	1125.39	TPVC	Dry	<1114.30
MW-36R	08/02/21	1125.39	TPVC	11.31	1114.08
MW-36R	08/13/21	1125.39	TPVC	11.72	1113.67
MW-36R	09/14/21	1125.39	TPVC	12.53	1112.86
MW-36R	09/17/21	1125.39	TPVC	12.20	1113.19
MW-36R	09/27/21	1125.39	TPVC	12.10	1113.29
MW-37	08/02/21	1103.80	TPVC	Dry	<1093.09
MW-37	08/13/21	1103.80	TPVC	Dry	<1093.09
MW-37	09/14/21	1103.80	TPVC	Dry	<1093.09
MW-37	09/27/21	1103.80	TPVC	Dry	<1093.09
MW-37R	08/02/21	1103.81	TPVC	22.49	1081.32
MW-37R	08/13/21	1103.81	TPVC	22.71	1081.10
MW-37R	09/14/21	1103.81	TPVC	23.72	1080.09

TABLE 2
Water Level - Depth and Elevation
Granite State Landfill
Dalton, New Hampshire

Location	Date	Reference Elevation (ft)	Reference Point	Depth to Water (ft)	Water Level Elevation (ft)
MW-37R	09/17/21	1103.81	TPVC	23.82	1079.99
MW-37R	09/27/21	1103.81	TPVC	23.98	1079.83
MW-38	08/02/21	1142.04	TPVC	23.47	1118.57
MW-38	08/13/21	1142.04	TPVC	23.70	1118.34
MW-38	09/14/21	1142.04	TPVC	24.70	1117.34
MW-38	09/17/21	1142.04	TPVC	24.94	1117.10
MW-38	09/27/21	1142.04	TPVC	25.03	1117.01
MW-38R	08/02/21	1142.05	TPVC	34.45	1107.60
MW-38R	08/13/21	1142.05	TPVC	34.80	1107.25
MW-38R	09/14/21	1142.05	TPVC	35.76	1106.29
MW-38R	09/17/21	1142.05	TPVC	35.77	1106.28
MW-38R	09/27/21	1142.05	TPVC	35.91	1106.14
MW-39	08/02/21	1094.35	TPVC	15.43	1078.92
MW-39	08/13/21	1094.35	TPVC	15.73	1078.62
MW-39	09/14/21	1094.35	TPVC	16.40	1077.95
MW-39	09/17/21	1094.35	TPVC	16.48	1077.87
MW-39	09/27/21	1094.35	TPVC	16.60	1077.75
MW-39	10/11/21	1094.35	TPVC	16.76	1077.59
MW-39R	08/02/21	1094.30	TPVC	29.86	1064.44
MW-39R	08/13/21	1094.30	TPVC	30.12	1064.18
MW-39R	09/14/21	1094.30	TPVC	30.80	1063.50
MW-39R	09/17/21	1094.30	TPVC	30.81	1063.49
MW-39R	09/27/21	1094.30	TPVC	30.84	1063.46
P-1	10/18/19	1170.95	TSS	4.07	1166.88
P-1	11/21/19	1170.95	TSS	3.87	1167.08
P-1	02/24/20	1170.95	TSS	4.00	1166.95
P-1	05/06/20	1170.95	TSS	3.87	1167.08
P-1	08/11/20	1170.95	TSS	4.87	1166.08
P-1	10/14/20	1170.95	TSS	4.41	1166.54
P-1	10/29/20	1170.95	TSS	4.08	1166.87
P-1	11/27/20	1170.95	TSS	3.96	1166.99
P-1	04/26/21	1170.95	TSS	3.96	1166.99
P-1	09/14/21	1170.95	TSS	4.92	1166.03
P-1	09/27/21	1170.95	TSS	4.40	1166.55
P-2	10/18/19	1136.00	TSS	5.27	1130.73
P-2	11/22/19	1136.00	TSS	4.19	1131.81
P-2	02/24/20	1136.00	TSS	4.03	1131.97
P-2	05/06/20	1136.00	TSS	3.92	1132.08
P-2	08/11/20	1136.00	TSS	4.53	1131.47
P-2	10/14/20	1136.00	TSS	4.27	1131.73
P-2	10/29/20	1136.00	TSS	4.47	1131.53
P-2	11/27/20	1136.00	TSS	4.23	1131.77
P-2	04/26/21	1136.00	TSS	4.18	1131.82
P-2	09/14/21	1136.00	TSS	4.50	1131.50
P-3	10/18/19	1172.50	TSS	4.18	1168.32
P-3	11/21/19	1172.50	TSS	4.29	1168.21

TABLE 2
Water Level - Depth and Elevation
Granite State Landfill
Dalton, New Hampshire

Location	Date	Reference Elevation (ft)	Reference Point	Depth to Water (ft)	Water Level Elevation (ft)
P-3	02/24/20	1172.50	TSS	4.24	1168.26
P-3	05/06/20	1172.50	TSS	4.04	1168.46
P-3	08/11/20	1172.50	TSS	6.15	1166.35
P-3	10/14/20	1172.50	TSS	4.52	1167.98
P-3	10/29/20	1172.50	TSS	4.25	1168.25
P-3	11/27/20	1172.50	TSS	4.08	1168.42
P-3	01/11/21	1172.50	TSS	4.63	1167.87
P-3	04/26/21	1172.50	TSS	4.15	1168.35
P-3	09/14/21	1172.50	TSS	5.32	1167.18
P-3	09/27/21	1172.50	TSS	4.74	1167.76
P-4	10/18/19	1180.79	TSS	4.02	1176.77
P-4	11/21/19	1180.79	TSS	3.70	1177.09
P-4	02/24/20	1180.79	TSS	3.76	1177.03
P-4	05/06/20	1180.79	TSS	3.37	1177.42
P-4	08/11/20	1180.79	TSS	5.62	1175.17
P-4	10/14/20	1180.79	TSS	5.28	1175.51
P-4	10/29/20	1180.79	TSS	4.22	1176.57
P-4	11/27/20	1180.79	TSS	3.75	1177.04
P-4	04/26/21	1180.79	TSS	3.43	1177.36
P-4	09/14/21	1180.79	TSS	6.15	1174.64
P-5	10/18/19	1161.33	TSS	5.01	1156.32
P-5	11/21/19	1161.33	TSS	4.73	1156.60
P-5	02/24/20	1161.33	TSS	3.94	1157.39
P-5	05/06/20	1161.33	TSS	3.88	1157.45
P-5	08/11/20	1161.33	TSS	4.46	1156.87
P-5	10/14/20	1161.33	TSS	4.54	1156.79
P-5	10/29/20	1161.33	TSS	4.15	1157.18
P-5	11/27/20	1161.33	TSS	3.99	1157.34
P-5	04/26/21	1161.33	TSS	3.87	1157.46
P-5	09/14/21	1161.33	TSS	4.58	1156.75
P-6	10/18/19	1165.10	TSS	5.14	1159.96
P-6	11/21/19	1165.10	TSS	5.02	1160.08
P-6	02/24/20	1165.10	TSS	5.48	1159.62
P-6	05/06/20	1165.10	TSS	4.99	1160.11
P-6	08/11/20	1165.10	TSS	6.96	1158.14
P-6	10/14/20	1165.10	TSS	6.22	1158.88
P-6	10/29/20	1165.10	TSS	5.24	1159.86
P-6	11/27/20	1165.10	TSS	5.05	1160.05
P-6	04/26/21	1165.10	TSS	5.08	1160.02
P-6	09/14/21	1165.10	TSS	6.65	1158.45
P-7	10/18/19	1164.30	TSS	3.65	1160.65
P-7	11/21/19	1164.30	TSS	3.56	1160.74
P-7	02/24/20	1164.30	TSS	3.67	1160.63
P-7	05/06/20	1164.30	TSS	3.51	1160.79
P-7	08/11/20	1164.30	TSS	5.07	1159.23
P-7	10/14/20	1164.30	TSS	3.56	1160.74
P-7	10/29/20	1164.30	TSS	3.52	1160.78

TABLE 2
Water Level - Depth and Elevation
Granite State Landfill
Dalton, New Hampshire

Location	Date	Reference Elevation (ft)	Reference Point	Depth to Water (ft)	Water Level Elevation (ft)
P-7	11/27/20	1164.30	TSS	3.66	1160.64
P-7	04/26/21	1164.30	TSS	3.74	1160.56
P-7	09/14/21	1164.49	TSS	3.54	1160.95
P-8	10/18/19	1167.36	TSS	3.40	1163.96
P-8	11/21/19	1167.36	TSS	3.32	1164.04
P-8	02/24/20	1167.36	TSS	3.77	1163.59
P-8	05/06/20	1167.36	TSS	2.42	1164.94
P-8	08/11/20	1167.36	TSS	4.95	1162.41
P-8	10/14/20	1167.36	TSS	5.71	1161.65
P-8	10/29/20	1167.36	TSS	3.25	1164.11
P-8	11/27/20	1167.36	TSS	3.04	1164.32
P-8	04/26/21	1167.36	TSS	2.44	1164.92
P-8	09/14/21	1167.36	TSS	5.68	1161.68
P-9	10/18/19	1179.99	TSS	4.77	1175.22
P-9	11/21/19	1179.99	TSS	4.72	1175.27
P-9	02/24/20	1179.99	TSS	4.90	1175.09
P-9	05/06/20	1179.99	TSS	4.56	1175.43
P-9	08/11/20	1179.99	TSS	Dry	<1173.06
P-9	10/14/20	1179.99	TSS	Dry	<1173.06
P-9	10/29/20	1179.99	TSS	4.67	1175.32
P-9	11/27/20	1179.99	TSS	4.51	1175.48
P-9	04/26/21	1179.99	TSS	4.42	1175.57
P-9	09/14/21	1179.99	TSS	Dry	<1173.06
P-9	09/27/21	1179.99	TSS	Dry	<1173.06
P-10	10/18/19	1190.72	TSS	6.09	1184.63
P-10	11/21/19	1190.72	TSS	5.28	1185.44
P-10	02/24/20	1190.72	TSS	5.16	1185.56
P-10	05/06/20	1190.72	TSS	4.06	1186.66
P-10	08/11/20	1190.72	TSS	Dry	<1183.57
P-10	10/14/20	1190.72	TSS	Dry	<1183.57
P-10	10/29/20	1190.72	TSS	5.28	1185.44
P-10	11/27/20	1190.72	TSS	4.52	1186.20
P-10	04/26/21	1190.72	TSS	4.17	1186.55
P-10	09/14/21	1190.72	TSS	Dry	<1183.57
P-11	10/06/20	1172.74	TSS		Dry
P-11	10/14/20	1172.74	TSS		Dry
P-11	10/29/20	1172.74	TSS	7.09	1165.65
P-11	11/27/20	1172.74	TSS		Dry
P-11	04/26/21	1172.74	TSS	6.45	1166.29
P-11	09/14/21	1172.74	TSS		Dry
P-12	10/06/20	1170.03	TSS	4.78	1165.25
P-12	10/14/20	1170.03	TSS	4.35	1165.68
P-12	10/29/20	1170.03	TSS	3.90	1166.13
P-12	11/27/20	1170.03	TSS	3.34	1166.69
P-12	01/11/21	1170.03	TSS	3.31	1166.72
P-12	04/26/21	1170.03	TSS	3.49	1166.54
P-12	09/14/21	1170.03	TSS	4.17	1165.86

TABLE 2
Water Level - Depth and Elevation
Granite State Landfill
Dalton, New Hampshire

Location	Date	Reference Elevation (ft)	Reference Point	Depth to Water (ft)	Water Level Elevation (ft)
P-13	10/14/20	1169.97	TSS	4.66	1165.31
P-13	10/29/20	1169.97	TSS	4.58	1165.39
P-13	11/27/20	1169.97	TSS	4.59	1165.38
P-13	01/11/21	1169.97	TSS	4.71	1165.26
P-13	04/26/21	1169.97	TSS	4.54	1165.43
P-13	09/14/21	1169.97	TSS	5.13	1164.84
P-14	10/14/20	1225.83	TSS		Dry
P-14	10/29/20	1225.83	TSS		Dry
P-14	11/27/20	1225.83	TSS	7.06	1218.77
P-14	04/26/21	1225.83	TSS		Dry
P-14	09/14/21	1225.83	TSS		Dry
Surface Water					
AB-1	10/02/19	1068.44	TOS	3.02	1065.42
AB-1	11/21/19	1068.44	TOS	3.23	1065.21
AB-1	02/25/20	1068.44	TOS	3.18	1065.26
AB-1	05/05/20	1068.44	TOS	3.19	1065.25
AB-1	08/11/20	1068.44	TOS	3.35	1065.09
AB-1	10/29/20	1068.44	TOS	3.25	1065.19
AB-1	04/27/21	1068.44	TOS	3.15	1065.29
AB-1	09/14/21	1068.44	TOS	3.27	1065.17
AB-1	09/17/21	1068.44	TOS	3.22	1065.22
SG-1	10/02/19	1134.96	TOS	3.10	1131.86
SG-1	11/04/19	1134.96	TOS	3.18	1131.78
SG-1	11/21/19	1134.96	TOS	3.11	1131.85
SG-1	02/25/20	1134.96	TOS	3.15	1131.81
SG-1	05/05/20	1134.96	TOS	2.96	1132.00
SG-1	08/11/20	1134.96	TOS	Dry	<1130.83
SG-1	10/29/20	1134.96	TOS	3.21	1131.75
SG-1	04/26/21	1134.96	TOS	3.02	1131.94
SG-1	09/14/21	1134.96	TOS	Dry	<1130.83
SG-2	10/03/19	1156.51	TOS	3.93	1152.58
SG-2	11/21/19	1156.51	TOS	4.00	1152.51
SG-2	02/24/20	1156.51	TOS	4.14	1152.37
SG-2	05/05/20	1156.51	TOS	4.09	1152.42
SG-2	08/11/20	1156.51	TOS	Dry	<1152.10
SG-2	10/29/20	1156.51	TOS	4.13	1152.38
SG-2	11/27/20	1156.51	TOS	4.07	1152.44
SG-2	04/26/21	1156.51	TOS	4.15	1152.36
SG-2	09/14/21	1156.51	TOS	Dry	<1152.10
SG-3	10/03/19	1102.42	TOS	3.82	1098.60
SG-3	11/21/19	1102.42	TOS	4.00	1098.42
SG-3	02/24/20	1102.42	TOS	4.20	1098.22
SG-3	05/05/20	1102.42	TOS	3.95	1098.47
SG-3	08/11/20	1102.42	TOS	4.33	1098.09
SG-3	10/29/20	1102.42	TOS	4.25	1098.17
SG-3	04/26/21	1102.42	TOS	4.30	1098.12

TABLE 2
Water Level - Depth and Elevation
Granite State Landfill
Dalton, New Hampshire

Location	Date	Reference Elevation (ft)	Reference Point	Depth to Water (ft)	Water Level Elevation (ft)
SG-3	09/14/21	1102.42	TOS	4.28	1098.14
SG-3	09/17/21	1102.42	TOS	4.21	1098.21
SG-4	10/02/19	1016.76	TOS	2.40	1014.36
SG-4	11/21/19	1016.76	TOS	2.96	1013.80
SG-4	02/25/20	1016.76	TOS	3.06	1013.70
SG-4	05/05/20	1016.76	TOS	3.19	1013.57
SG-4	08/11/20	1016.76	TOS	3.58	1013.18
SG-4	10/29/20	1016.76	TOS	3.33	1013.43
SG-4	04/27/21	1016.76	TOS	3.39	1013.37
SG-4	09/14/21	1016.76	TOS	3.70	1013.06
SG-4	09/17/21	1016.76	TOS	3.53	1013.23
SG-5	10/02/19	1068.13	TOS	3.74	1064.39
SG-5	11/21/19	1068.13	TOS	4.01	1064.12
SG-5	02/25/20	1068.13	TOS	4.06	1064.07
SG-5	05/05/20	1068.13	TOS	4.08	1064.05
SG-5	08/11/20	1068.13	TOS	Dry	<1063.57
SG-5	10/29/20	1068.13	TOS	4.18	1063.95
SG-5	04/27/21	1068.13	TOS	4.17	1063.96
SG-5	09/14/21	1068.13	TOS	Dry	<1063.57
SG-5	09/17/21	1068.13	TOS	Dry	<1063.57
SG-6	10/03/19	1108.17	TOS	3.15	1105.02
SG-6	11/21/19	1108.17	TOS	2.98	1105.19
SG-6	02/24/20	1108.17	TOS	2.94	1105.23
SG-6	05/05/20	1108.17	TOS	2.91	1105.26
SG-6	08/11/20	1108.17	TOS	3.75	1104.42
SG-6	10/29/20	1108.17	TOS	3.28	1104.89
SG-6	04/26/21	1108.17	TOS	2.89	1105.28
SG-6	09/14/21	1108.17	TOS	3.68	1104.49
SG-6	09/17/21	1108.17	TOS	3.41	1104.76
SP-1	10/03/19	1091.64	TOS	3.57	1088.07
SP-1	11/21/19	1091.64	TOS	3.55	1088.09
SP-1	02/25/20	1091.64	TOS	3.53	1088.11
SP-1	05/05/20	1091.64	TOS	3.53	1088.11
SP-1	08/11/20	1091.64	TOS	3.70	1087.94
SP-1	10/29/20	1091.64	TOS	3.62	1088.02
SP-1	04/26/21	1091.64	TOS	3.68	1087.96
SP-1	09/14/21	1091.64	TOS	Dry	<1087.75

Notes:

1. Measurements were collected by Sanborn Head personnel.
2. "TPVC" indicates top of PVC well riser, "TSS" indicates top of stainless steel riser, and "TOS" indicates top of staff gauge.
3. Fluctuations in groundwater and surface water elevations may occur due to variations in temperature, rainfall, and/or other factors.
4. "<" refers to a dry location. The value indicates the bottom of the screened interval for monitoring wells and piezometers, or the ground surface for staff gauges, at the time of installation.

FIGURES

Figure 1

Exploration Location Plan

Hydrogeologic Supplement

Granite State Landfill
Dalton, New Hampshire

Drawn By: E. Wright
Designed By: L. Corenthal
Reviewed By: T. White
Project No: 1003.20
Date: October 2021

Figure Narrative

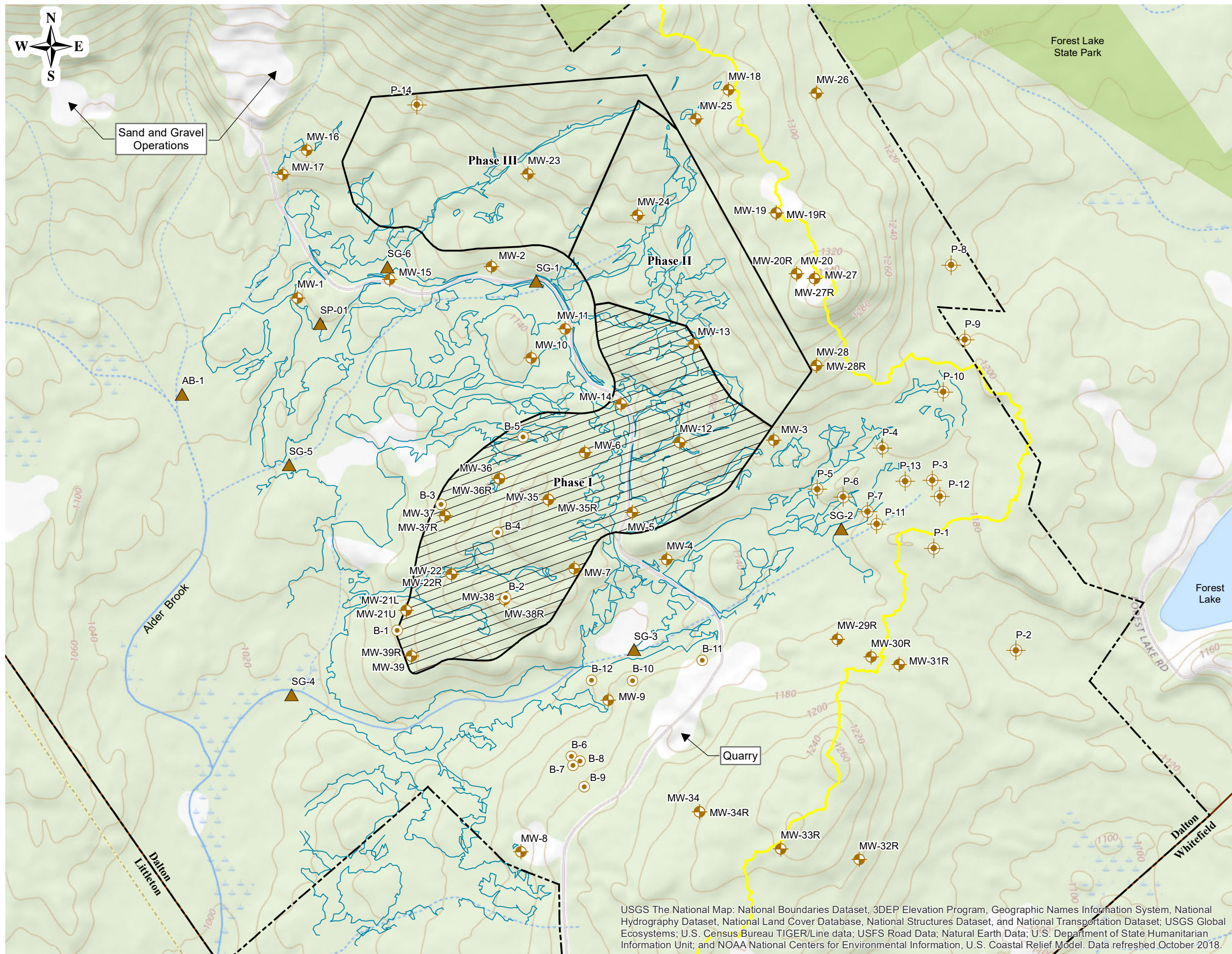
This figure depicts the locations of monitoring wells, piezometers, soil borings, and surface water gauging stations installed as part of site characterization activities. Also indicated on the plan are locations of key site features.

Notes

1. USGS topography map provided by ArcGIS Online.
2. Locations of monitoring wells, piezometers, soil borings, and surface water gauging stations were surveyed by Horizons Engineering.
3. Refer to the September 2020 Wetlands Application for additional information regarding wetland type, etc.

Legend

- Project Property Line
- Proposed Landfill Limit
- Alder Brook/Hatch Brook catchment
- Wetland
- Monitoring Well
- Piezometer
- Geotechnical Boring
- Surface Water Gauging Station
- U Indicates Upper Overburden Well
- L Indicates Lower Overburden Well
- R Indicates Bedrock Well



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 Last Edited By: ewright
 Path: P:\1003s\1003_16\Graphics\Figures\Hydrogeologic Rpt\Site\Feats_SamplingPlan.mxd

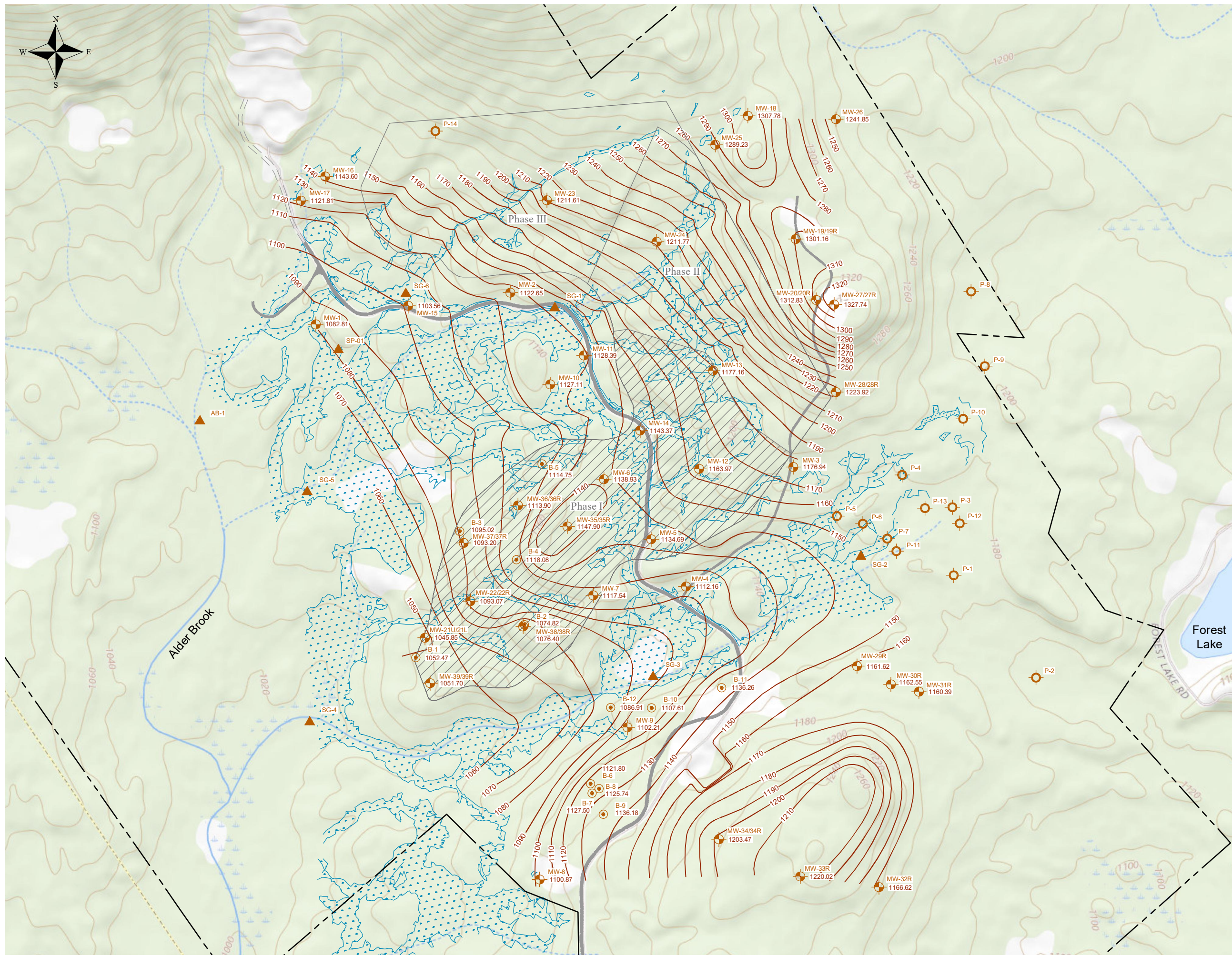


Figure 2

Bedrock Surface Elevation Contour Plan

Hydrogeologic Supplement

Granite State Landfill
Dalton, New Hampshire

Drawn By: E. Wright
Designed By: L. Corenthall
Reviewed By: T. White
Project No: 1003.20
Date: October 2021

Figure Narrative

This figure shows bedrock surface elevation contours. The contours have been developed based on explorations. Actual conditions between exploration locations may vary from those shown.

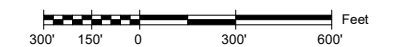
This figure has been modified from Figure 6 of the January 2021 Hydrogeologic Report to include updated bedrock surface elevation information.

Notes

1. Base plan was created using topographic map coverage from the U.S. Geological Survey.
2. Monitoring locations were surveyed by Horizons Engineering of Littleton, New Hampshire.
3. Bedrock elevations are based on borings completed in 2018, 2019, and 2021 by Glacier Drilling of Durham, Connecticut and observed by Sanborn Head. Bedrock elevation contours also incorporate information from geotechnical borings B-1 through B-5 installed in 2020 and observed by CMA Engineers. In addition to the boring information, the bedrock contours were prepared using ground surface elevations to guide placement and shape of the contours.
4. Refer to previous figures for additional notes and legend.

Legend

- Project property line
- LiDAR ground surface contour
- Gravel road
- Wetland
- Proposed landfill limit
- MW-1 Monitoring well
- SG-1 Surface water staff gauge/sampling location
- P-1 Piezometer
- B-1 Geotechnical boring (black indicates not surveyed)
- Inferred bedrock elevation contour (ft)
- 1161.62 Bedrock elevation (ft)



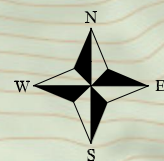


Figure 3A

Cross Section Location Plan

Hydrogeologic Supplement

Granite State Landfill
Dalton, New Hampshire

Drawn By: E. Wright
Designed By: L. Corenthal
Reviewed By: T. White
Project No: 1003.20
Date: October 2021

Figure Narrative

This figure depicts the locations of cross sections A to A' and B to B' shown on Figures 3B and 3C, respectively.

Notes

1. Refer to previous figures for additional notes and legend.

Legend

- Project property line
- Gravel road
- Skid road
- Wetland
- Proposed landfill limit
- MW-1 Monitoring well
- SG-1 Surface water staff gauge/sampling location
- P-1 Piezometer location
- B-1 Geotechnical boring

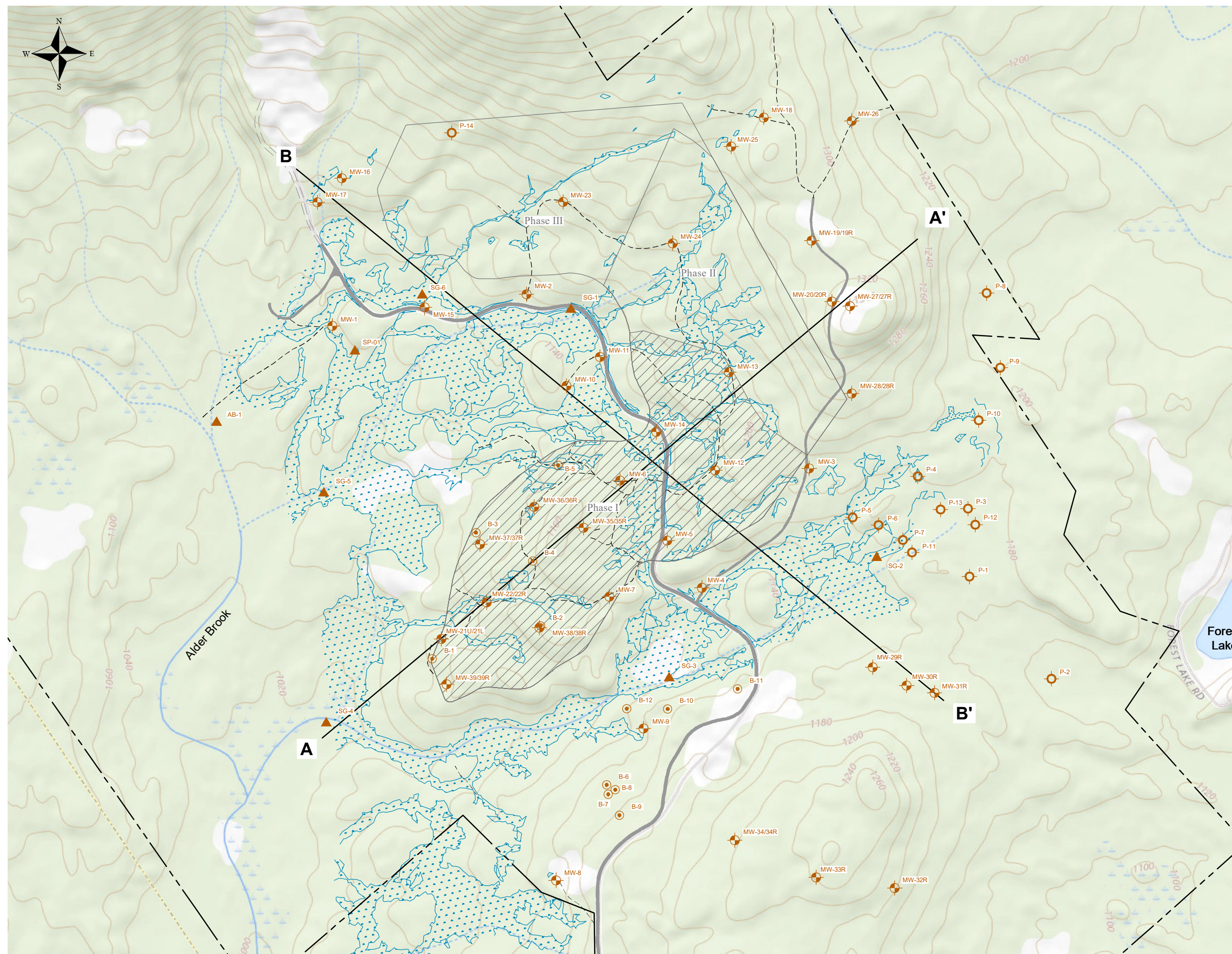


Figure 3B

Cross Section A - A'

Hydrogeologic Supplement

Granite State Landfill
Dalton, New Hampshire

Drawn By: E. Wright
Designed By: L. Corenthal
Reviewed By: T. White
Project No: 1003.20
Date: October 2021

Figure Narrative

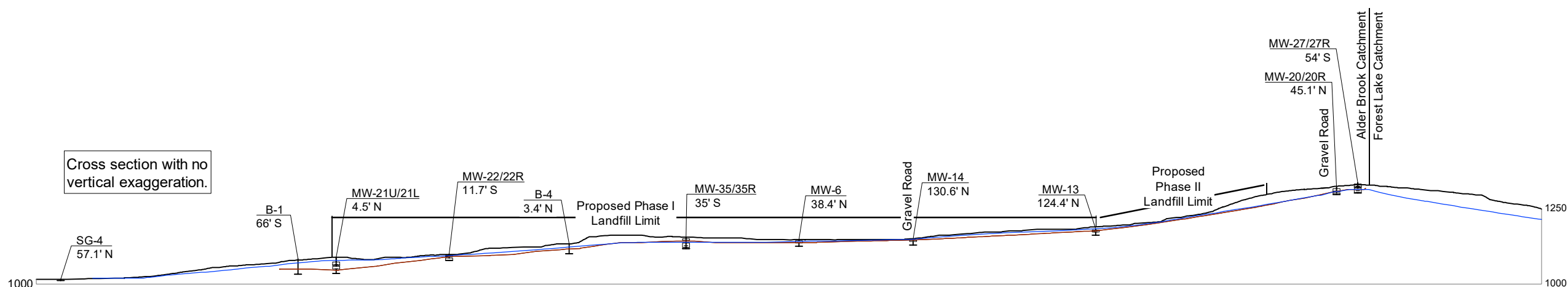
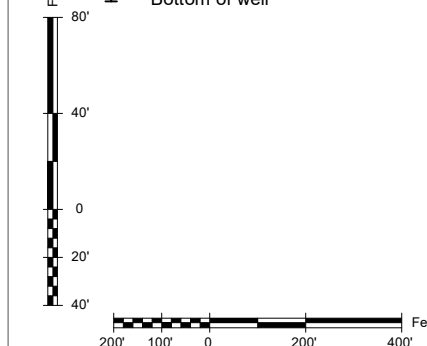
This figure depicts the ground surface topography, inferred bedrock surface and groundwater table elevations, the locations of existing monitoring points, and the extents of the proposed landfill limit. Locations of the ground surface along the cross section alignment within the mapped wetland area are also indicated.

Notes

1. Ground topography is based on LiDAR data obtained from NH GRANIT.
2. Refer to the text of the supplement for a discussion of how seasonal high groundwater values were identified.
3. Some features have been projected onto the cross-section from adjacent areas, and as such, differences in elevations of the ground surface, groundwater table, and/or top of bedrock surface between values measured at the points and along the alignment may be indicated.

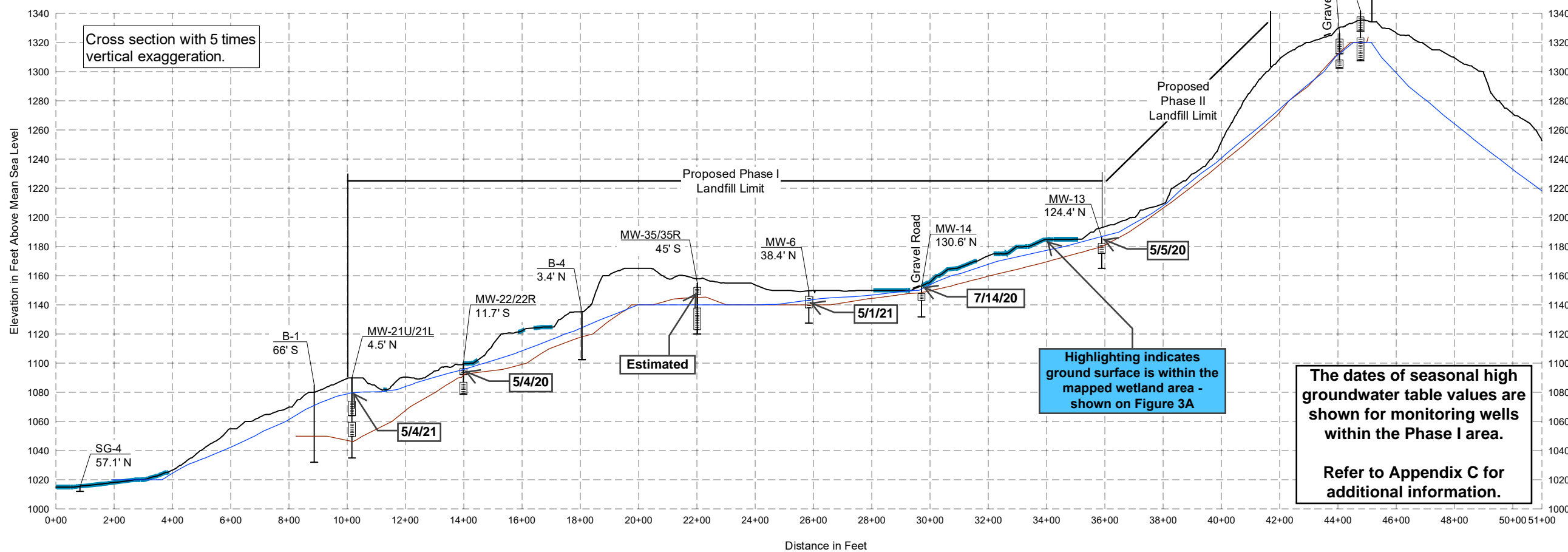
Legend

- MW-13 124.4' N
Monitoring well designation
Distance and direction off alignment
- Ground surface (blue highlighting indicates ground surface is within the mapped wetland area - shown on Figure 3A)
- Well screen
- Estimated seasonal high groundwater elevation
- Bedrock surface elevation
- Bottom of well



A
Southwest

A'
Northeast



Highlighting indicates ground surface is within the mapped wetland area - shown on Figure 3A

The dates of seasonal high groundwater table values are shown for monitoring wells within the Phase I area.
Refer to Appendix C for additional information.

Notes

1. Ground topography is based on LiDAR data obtained from NH GRANIT.
2. Refer to the text of the supplement for a discussion of how seasonal high groundwater values were identified.
3. Some features have been projected onto the cross-section from adjacent areas, and as such, differences in elevations of the ground surface, groundwater table, and/or top of bedrock surface between values measured at the points and along the alignment may be indicated.

Legend

- MW-6 232.2' W
Monitoring well designation
Distance and direction off alignment
- Ground surface (blue highlighting indicates ground surface is within the mapped wetland area - shown on Figure 3A)
- Well screen
- Estimated seasonal high groundwater elevation
- Bedrock surface elevation
- Bottom of well

Figure 3C

Cross Section B - B'

Hydrogeologic Supplement

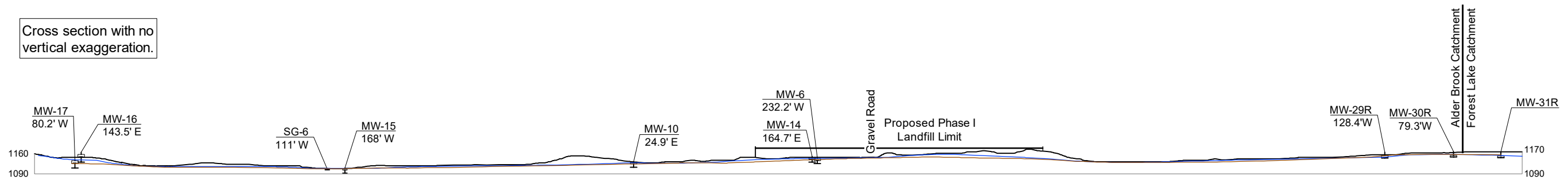
Granite State Landfill
Dalton, New Hampshire

Drawn By: E. Wright
Designed By: L. Corenthal
Reviewed By: T. White
Project No: 1003.20
Date: October 2021

Figure Narrative

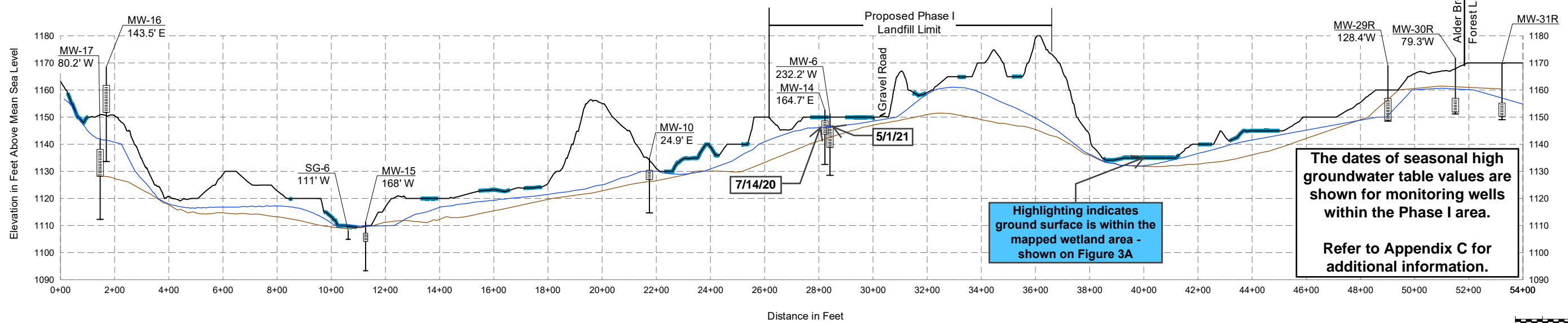
This figure depicts the ground surface topography, inferred bedrock surface and groundwater table elevations, the locations of existing monitoring points, and the extents of the proposed landfill limit. Locations of the ground surface along the cross section alignment within the mapped wetland area are also indicated.

Cross section with no vertical exaggeration.



B
Northwest

B'
Southeast



Highlighting indicates ground surface is within the mapped wetland area - shown on Figure 3A

The dates of seasonal high groundwater table values are shown for monitoring wells within the Phase I area.
Refer to Appendix C for additional information.

Cross section with 10 times vertical exaggeration.

APPENDIX A

EXPLORATION LAYOUT DISCUSSION AND PLAN

APPENDIX A

EXPLORATION LAYOUT DISCUSSION AND PLAN

To refine the spacing between locations where bedrock surface and groundwater elevation measurements have been recorded in the Phase I area, five additional monitoring well “couplets” (well pairs screened in overburden and bedrock) were installed in July 2021 to create a triangular-shaped systematic pattern within the Phase I area. In developing the layout using triangular areas, borings near the Phase I limits were also included in the assessment where they provided additional control.

The triangular areas were used to allow interpretation of the bedrock and groundwater table surfaces in the irregularly shaped Phase I area. The triangular pattern also allows for the area to be divided into a series of “three-point problems” where groundwater flow directions can be assessed to support contouring.

As summarized on the attached sheet, the addition of new wells in July 2021 confirmed that interpretations of bedrock and groundwater table surfaces were being made over demonstrably shorter distances compared to the previous configuration, and allowed for greater “control” in interpreting between points. Boring locations are indicated on the attached Figure A.1; a summary of the refinements in point spacing includes the following:

- The number of points within the Phase I area where bedrock control has been obtained increased from 13 to 17¹; and where groundwater table control has been obtained increased from 8 to 13.
- The number of lines connecting groundwater points used for contouring increased approximately 50% from 42 to 63.
- The average distance between groundwater observation points within the Phase I area was reduced from 677 feet to 570 feet.
- The number of triangular areas used for interpreting between groundwater points increased 50% from 14 to 21.
- The average triangular area between groundwater points decreased from 3.9 acres to 2.8 acres.

The exploration layout before and after July 2021 is shown on Figure A.1.

Attachments

Summary of Point Spacing - Phase 1 Area
Figure A.1 - Exploration Layout

¹ B-2 and the MW-38 couplet are considered 1 location for the purposes of confirming bedrock depth.

**Summary of Groundwater Point Spacing - Phase 1 Area
Granite State Landfill
Dalton, New Hampshire**

Distance Between GW Points		
Distance Range (feet)	Point Count	
	Initial Configuration	With Supplemental Points
0-300	1	2
300-600	13	32
600-900	23	28
900-1200	4	1
1200-1500	0	0
1500-1520	1	0

Triangular Area Between GW Points		
Area (acres)	Point Count	
	Initial Configuration	With Supplemental Points
0-2	0	4
2-4	9	13
4-6	3	4
6-8	1	0
8-10	1	0

# lines	42	63
Avg length (ft)	677	570

# triangles	14	21
Avg area (acres)	3.9	2.8

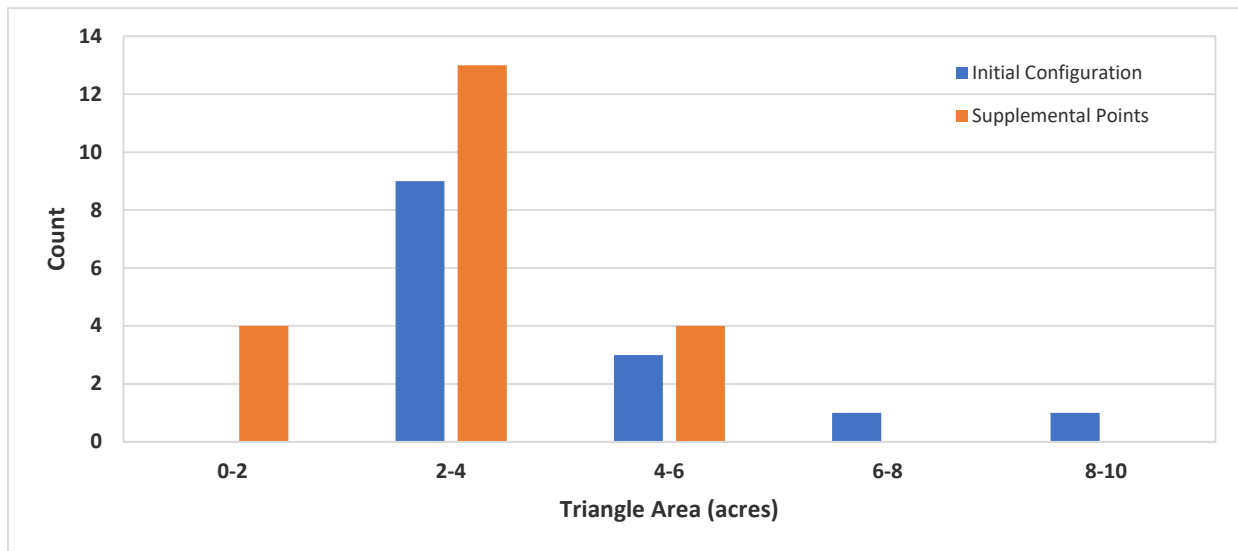
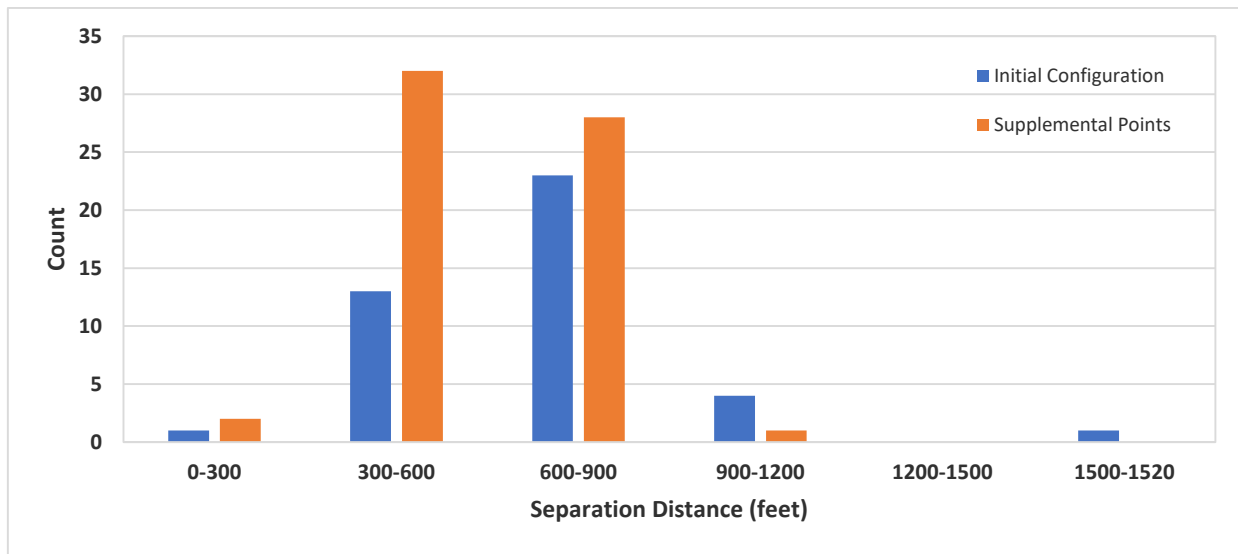


Figure A.1

Exploration Layout

Hydrogeologic Supplement

Granite State Landfill
Dalton, New Hampshire

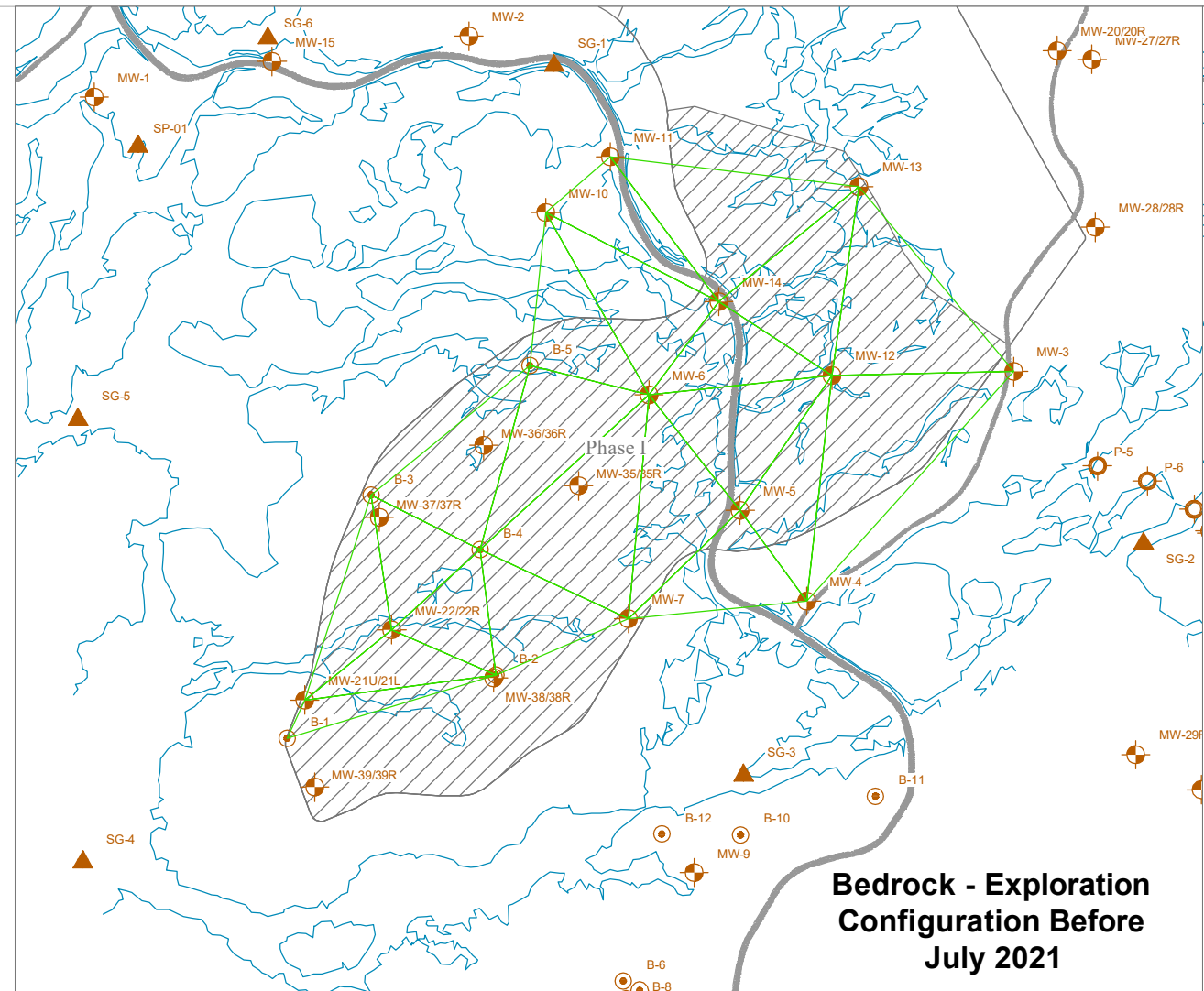
Drawn By: E. Wright
Designed By: L. Corenlath
Reviewed By: T. White
Project No: 1003.20
Date: October 2021

Figure Narrative

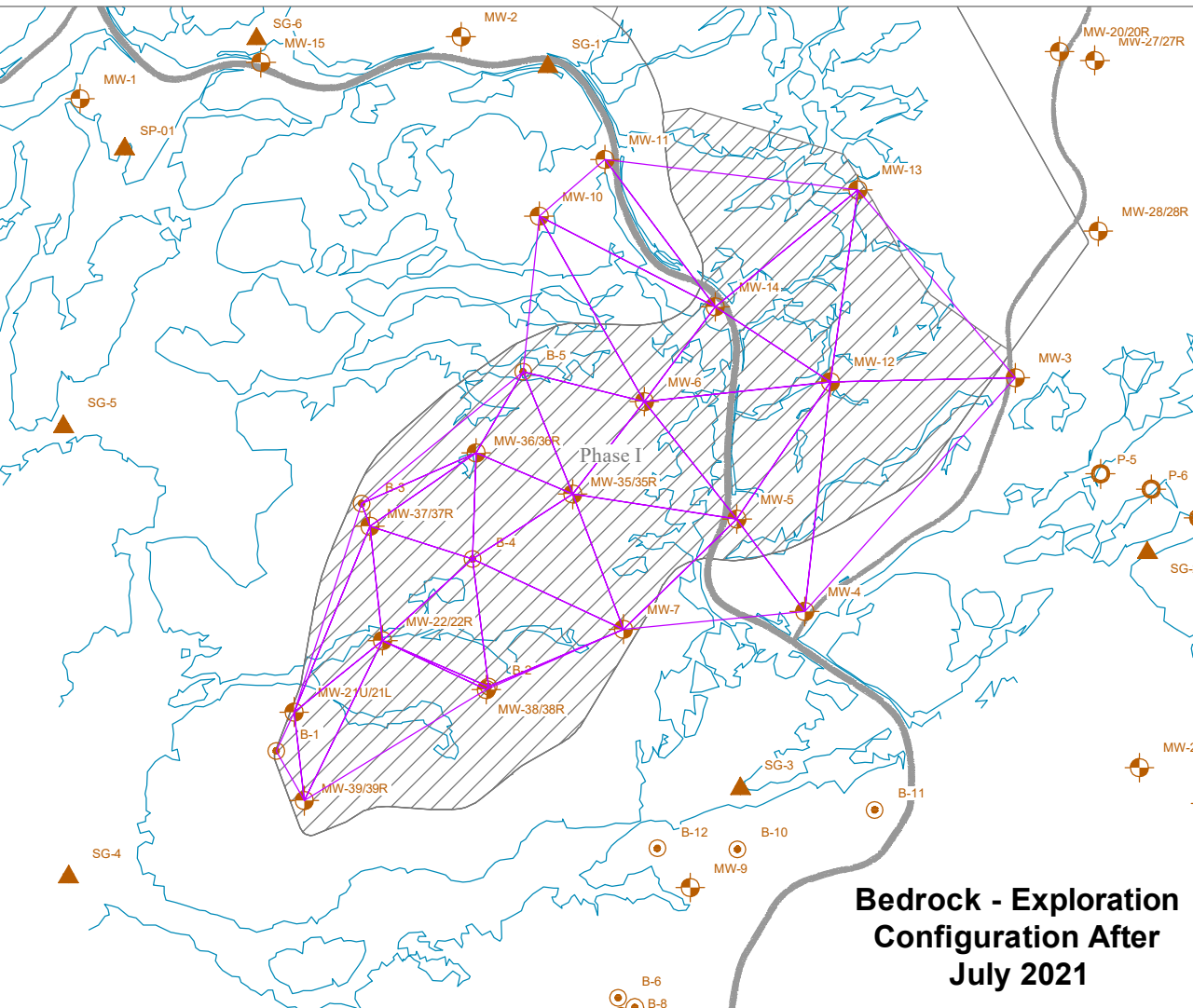
This figure depicts the configuration of explorations where bedrock and groundwater elevation were obtained before and after additional explorations were installed in July 2021.

Notes

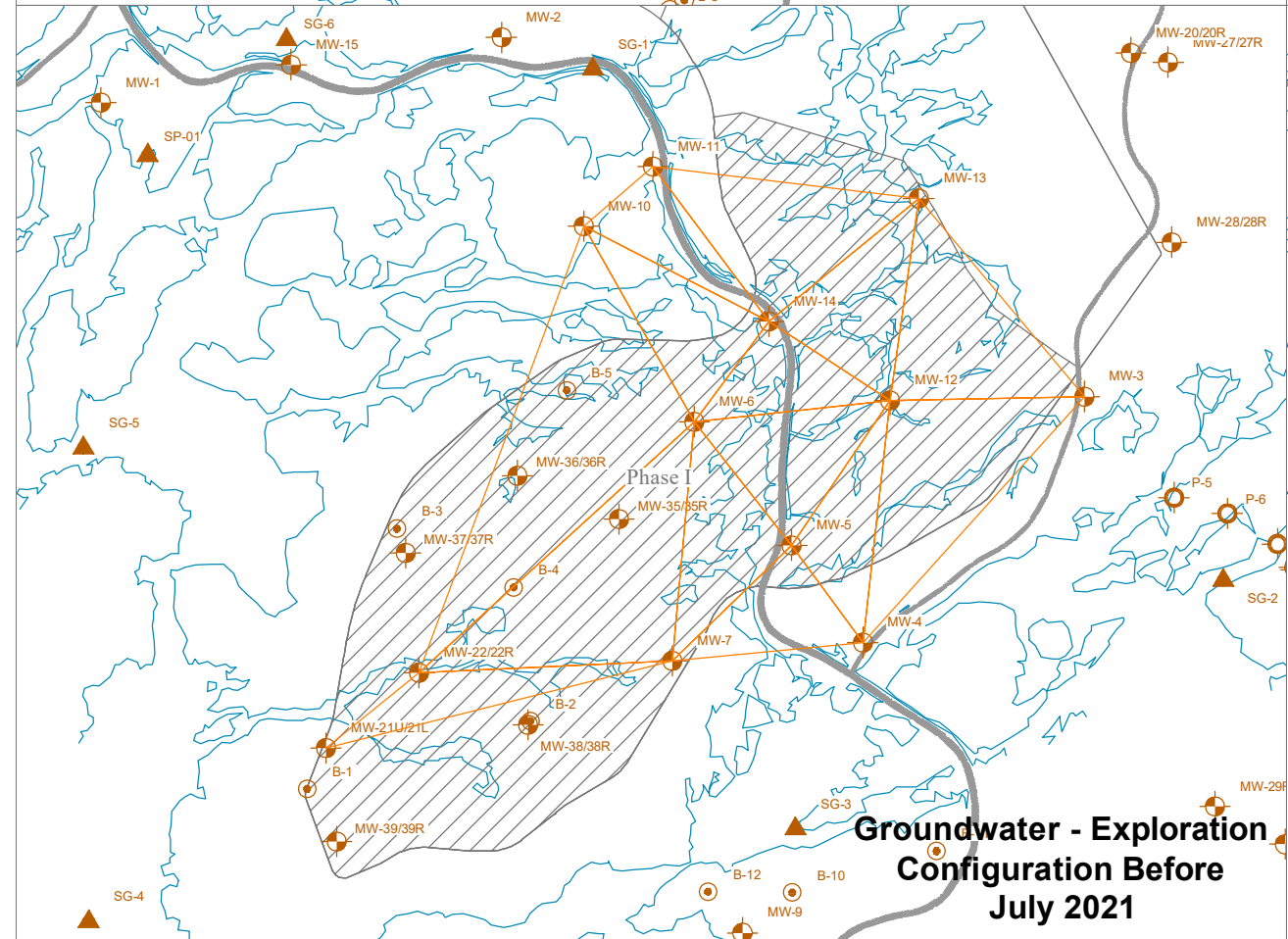
1. Base plan was created based on information provided by CMA Engineers of Portsmouth, New Hampshire.
2. Monitoring locations were surveyed by Horizons Engineering of Littleton, New Hampshire.



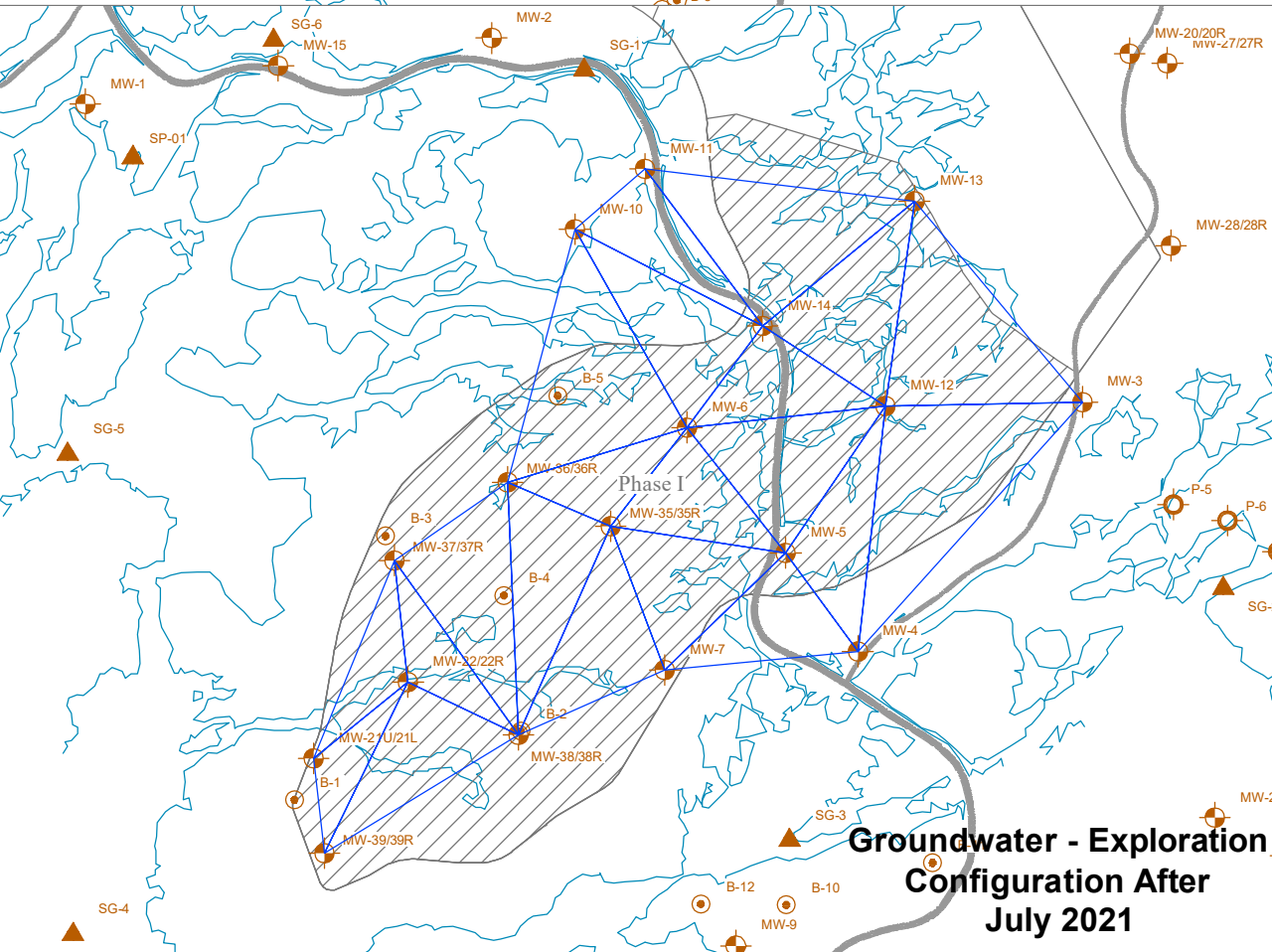
Bedrock - Exploration Configuration Before July 2021



Bedrock - Exploration Configuration After July 2021



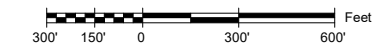
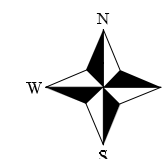
Groundwater - Exploration Configuration Before July 2021



Groundwater - Exploration Configuration After July 2021

Legend

- Project property line
- LiDAR ground surface contour
- Gravel road
- Wetland
- Proposed landfill limit
- MW-1 Monitoring well
- SG-1 Surface water staff gauge/sampling location
- P-1 Piezometer
- B-1 Geotechnical Boring



APPENDIX B
FIELD DOCUMENTATION

MONITORING WELL LOGS

Sanborn, Head & Associates, Inc.

Drilling Method: Geoprobe® 8150 LS Track Rig

Sampling Method: Sonic 6" / 4" Casing

Groundwater Readings

Date	Time	Depth to Water	Ref. Pt.	Depth of Casing	Depth of Hole	Stab. Time
07/15/21	11:29	Dry	Top of PVC	Well Installed	Well Installed	~15 Minutes

Drilling Company: Glacier Drilling, LLC

Foreman: M. Schock

Date Started: 07/14/21

Date Finished: 07/15/21

Logged By: P. Pryor

Checked By: T. White

Depth (ft)	Sample Information				Stratum		Geologic Description	Well Diagram	Well Description
	Sample No.	Depth (ft)	Pen/Rec (ft)	Field Testing Data	Log	Description			
-2									6" Dia. Protective Steel Casing with Locking Standpipe set in Concrete (-3 to 2')
0						-----0'-----	(0 to 35'): Refer to log MW-35R for stratum and geologic descriptions.		Concrete Pad (0 to 0.5') Native Soil (0.5 to 1')
2									Bentonite Chips (1 to 2.8')
4									2" Dia. Sch. 40 PVC Well Screen (0.010" Slots) (2.9 to 7.9')
6									#1 Filter Sand (2.8 to 8.2')
8									Silt Cap (7.9 to 8.2')
10									
12									
14									
16									
18									
20									
22									

BORING LOG P:\1000S\1003.20\WORKLOGS\1003.20.GPJ 2017 SANBORN HEAD V1.GLB 2017 SANBORN HEAD V1.GDT 10/26/21



Project: Granite State Landfill
 Location: Dalton, NH
 Project No.: 1003.20

Log of Monitoring Well MW-35

Ground Elevation: 1155.56 ± feet
 TOC Elevation: 1158.46 ± feet
 PVC Elevation: 1158.21 ± feet
 Datum: NAVD 1988

Sanborn, Head & Associates, Inc.

Drilling Method: Geoprobe® 8150 LS Track Rig

Sampling Method: Sonic 6" / 4" Casing

Groundwater Readings

Date	Time	Depth to Water	Ref. Pt.	Depth of Casing	Depth of Hole	Stab. Time
07/15/21	11:29	Dry	Top of PVC	Well Installed	Well Installed	~15 Minutes

Drilling Company: Glacier Drilling, LLC

Foreman: M. Schock

Date Started: 07/14/21

Date Finished: 07/15/21

Logged By: P. Pryor

Checked By: T. White

BORING LOG P:\1000S\1003.20\WORK\LOGS\1003.20.GPJ 2017 SANBORN HEAD V1.GLB 2017 SANBORN HEAD V1.GDT 10/26/21

Depth (ft)	Sample Information				Stratum		Geologic Description	Well Diagram	Well Description
	Sample No.	Depth (ft)	Pen/Rec (ft)	Field Testing Data	Log	Description			
24									
26									
28									
30									
32									
34									
35						-----35'-----	Boring terminated at 35 feet. No refusal encountered.		
36							NOTES: 1. Soil samples were screened for volatile organic compounds (VOCs) using a MiniRAE 3000 Photoionization Detector (PID) with a 10.6 eV lamp, calibrated to a 100 parts per million by volume (ppmv) isobutylene-in-air standard using a response factor of 1.0. Results are presented in ppmv; the typical detection limit is 1 ppmv. ND indicates not detected. NA indicates not available. The PID measures relative levels of VOCs. Although PID screening cannot be used directly to quantify VOC concentrations or identify individual compounds, the results can serve as a relative indicator for the presence of VOCs. 2. Approximately 325 gallons of potable water used during bedrock drilling. 3. MW-35 and MW-35R well installations were completed in the same borehole.		
38									
40									
42									
44									
46									
48									



Project: Granite State Landfill
 Location: Dalton, NH
 Project No.: 1003.20

Log of Monitoring Well MW-35R

Ground Elevation: 1155.56 ± feet
 TOC Elevation: 1158.46 ± feet
 PVC Elevation: 1158.22 ± feet
 Datum: NAVD 1988

Sanborn, Head & Associates, Inc.

Drilling Method: Geoprobe® 8150 LS Track Rig

Sampling Method: Sonic 6"¼" Casing

Groundwater Readings

Date	Time	Depth to Water	Ref. Pt.	Depth of Casing	Depth of Hole	Stab. Time
07/15/21	07:30	22.72'	Ground Surface	20'	26.3'	15 Hours
07/15/21	11:30	28.76'	Top of PVC	Well Installed	Well Installed	<15 Minutes

Drilling Company: Glacier Drilling, LLC

Foreman: M. Schock

Date Started: 07/14/21

Date Finished: 07/15/21

Logged By: P. Pryor

Checked By: T. White

BORING LOG P:\1000S\1003.20\WORK\LOGS\1003.20.GPJ 2017 SANBORN HEAD V1.GLB 2017 SANBORN HEAD V1.GDT 10/26/21

Depth (ft)	Sample Information				Stratum		Geologic Description	Well Diagram	Well Description
	Sample No.	Depth (ft)	Pen/Rec (ft)	Field Testing Data	Log	Description			
-2								6" Dia. Protective Steel Casing with Locking Standpipe set in Concrete (-3 to 2')	
0	S-1	0 - 4	4.0/ 3.0	PID: 5 ppmv		---0'--- TOPSOIL	S-1A (0 to 1.4'): TOPSOIL.	Concrete Pad (0 to 0.5')	
2						-1.4' SAND & GRAVEL -2.2'	S-1B (1.4 to 2.2'): Light brown/gray, fine to coarse SAND, some fine to medium Gravel, little Silt. Moist.	Native Soil (0.5 to 1')	
4	S-2	4 - 5	1.0/ 1.0	PID: NA		GRAVELLY SAND	S-1C (2.2 to 4'): Brown/orange, fine to coarse SAND, little fine to medium Gravel, little Silt. Moist.	Bentonite Chips (1 to 2.8')	
6	S-3	5 - 10	5.0/ 5.0	PID: 7 ppmv			S-2 (4 to 5'): Brown/orange, fine to coarse SAND, little fine to medium Gravel, little Silt. Moist.		
8						-7.2' SAND & SILT -7.7'	S-3A (5 to 7.2'): Light brown/brown, fine to coarse SAND, little fine to coarse Gravel, little Silt. Moist.	#1 Filter Sand (2.8 to 8.2')	
10	S-4	10 - 12	2.0/ 2.0	PID: NA			S-3B (7.2 to 7.7'): Brown, fine to coarse SAND and SILT, trace fine to medium Gravel. Moist.		
12	S-5	12 - 15	3.0/ 3.0	PID: NA			S-3C (7.7 to 10'): Highly broken, pink, GRANITE.	Bentonite Chips (8.2 to 15')	
16	R-1	15 - 20	5.0/ 3.2	PID: NA		GRANITE	S-4 (10 to 12'): Highly broken, pink, GRANITE.		
20	R-2	20 - 27	7.0/ 1.5	PID: NA			S-5A (12 to 15'): Highly broken, pink, GRANITE.		
22							R-1 (15 to 20'): Hard, fresh to very slightly weathered, pink, coarse-grained, GRANITE, Highly fractured.	2" Dia. Sch. 40 PVC Well Screen (0.010" Slots) (17 to 32')	
							R-2 (20 to 27'): Hard, moderate to severely weathered, pink, coarse-grained, GRANITE, Highly fractured.		



Project: Granite State Landfill
 Location: Dalton, NH
 Project No.: 1003.20

Log of Monitoring Well MW-35R

Ground Elevation: 1155.56 ± feet
 TOC Elevation: 1158.46 ± feet
 PVC Elevation: 1158.22 ± feet
 Datum: NAVD 1988

Sanborn, Head & Associates, Inc.

Drilling Method: Geoprobe® 8150 LS Track Rig

Sampling Method: Sonic 6" / 4" Casing

Groundwater Readings

Date	Time	Depth to Water	Ref. Pt.	Depth of Casing	Depth of Hole	Stab. Time
07/15/21	07:30	22.72'	Ground Surface	20'	26.3'	15 Hours
07/15/21	11:30	28.76'	Top of PVC	Well Installed	Well Installed	<15 Minutes

Drilling Company: Glacier Drilling, LLC

Foreman: M. Schock

Date Started: 07/14/21

Date Finished: 07/15/21

Logged By: P. Pryor

Checked By: T. White

Depth (ft)	Sample Information				Stratum		Geologic Description	Well Diagram	Well Description
	Sample No.	Depth (ft)	Pen/Rec (ft)	Field Testing Data	Log	Description			
24					+				
26					+				
27 - 35	R-3	27 - 35	8.0 / 3.2	PID: NA	+	GRANITE	R-3 (27 to 35'): Hard, moderate to severely weathered, pink, coarse-grained, GRANITE, Highly fractured.		#1 Filter Sand (15 to 34')
28					+				
30					+				
32					+				Silt Cap (32 to 32.3')
34					+				Bentonite Chips (34 to 35')
35					-----		Boring terminated at 35 feet. No refusal encountered.		
36									
38							NOTES: 1. Soil samples were screened for volatile organic compounds (VOCs) using a MiniRAE 3000 Photoionization Detector (PID) with a 10.6 eV lamp, calibrated to a 100 parts per million by volume (ppmv) isobutylene-in-air standard using a response factor of 1.0. Results are presented in ppmv; the typical detection limit is 1 ppmv. ND indicates not detected. NA indicates not available. The PID measures relative levels of VOCs. Although PID screening cannot be used directly to quantify VOC concentrations or identify individual compounds, the results can serve as a relative indicator for the presence of VOCs. 2. Approximately 325 gallons of potable water introduced to bedrock during drilling activities. 3. MW-35 and MW-35R well installations were completed in the same borehole. 4. The presence of granite bedrock is consistent with the Bedrock Geologic Map of New Hampshire (Lyons et al., 1997), which describes Late Devonian granite of the New Hampshire Plutonic Suite in the vicinity of the site.		
40									
42									
44									
46									
48									

BORING LOG P:\1000S\1003.20\WORK\LOGS\1003.20.GPJ 2017 SANBORN HEAD V1.GLB 2017 SANBORN HEAD V1.GDT 10/26/21

Sanborn, Head & Associates, Inc.

Drilling Method: Geoprobe® 8150 LS Track Rig

Sampling Method: Sonic 6" / 4" Casing

Groundwater Readings

Date	Time	Depth to Water	Ref. Pt.	Depth of Casing	Depth of Hole	Stab. Time
07/16/21	09:22	11.35'	Top of PVC	Well Installed	Well Installed	~30 Minutes

Drilling Company: Glacier Drilling, LLC

Foreman: M. Schock

Date Started: 07/15/21

Date Finished: 07/16/21

Logged By: P. Pryor

Checked By: T. White

Depth (ft)	Sample Information				Stratum		Geologic Description	Well Diagram	Well Description
	Sample No.	Depth (ft)	Pen/Rec (ft)	Field Testing Data	Log	Description			
-2									6" Dia. Protective Steel Casing with Locking Standpipe set in Concrete (-3 to 2')
0						-----0'-----	(0 to 25'): Refer to log MW-36R for stratum and geologic descriptions.		Concrete Pad (0 to 0.5') Native Soil (0.5 to 1.3')
2									Bentonite Chips (1.3 to 3.3')
4									2" Dia. Sch. 40 PVC Well Screen (0.010" Slots) (3.5 to 8.5')
6									#1 Filter Sand (3.3 to 9')
8									Silt Cap (8.5 to 8.8')
10									
12									
14									
16									
18									
20									
22									

BORING LOG P:\1000S\1003.20\WORKLOGS\1003.20.GPJ 2017 SANBORN HEAD V1.GLB 2017 SANBORN HEAD V1.GDT 10/26/21



Project: Granite State Landfill
 Location: Dalton, NH
 Project No.: 1003.20

Log of Monitoring Well MW-36

Ground Elevation: 1122.8 ± feet
 TOC Elevation: 1125.69 ± feet
 PVC Elevation: 1125.39 ± feet
 Datum: NAVD 1988

Sanborn, Head & Associates, Inc.

Drilling Method: Geoprobe® 8150 LS Track Rig

Sampling Method: Sonic 6" / 4" Casing

Groundwater Readings

Date	Time	Depth to Water	Ref. Pt.	Depth of Casing	Depth of Hole	Stab. Time
07/16/21	09:22	11.35'	Top of PVC	Well Installed	Well Installed	~30 Minutes

Drilling Company: Glacier Drilling, LLC

Foreman: M. Schock

Date Started: 07/15/21

Date Finished: 07/16/21

Logged By: P. Pryor

Checked By: T. White

Depth (ft)	Sample Information				Stratum		Geologic Description	Well Diagram	Well Description
	Sample No.	Depth (ft)	Pen/Rec (ft)	Field Testing Data	Log	Description			
24									
26						-----25'-----	Boring terminated at 25 feet. No refusal encountered.		
28							NOTES: 1. Soil samples were screened for volatile organic compounds (VOCs) using a MiniRAE 3000 Photoionization Detector (PID) with a 10.6 eV lamp, calibrated to a 100 parts per million by volume (ppmv) isobutylene-in-air standard using a response factor of 1.0. Results are presented in ppmv; the typical detection limit is 1 ppmv. ND indicates not detected. NA indicates not available. The PID measures relative levels of VOCs. Although PID screening cannot be used directly to quantify VOC concentrations or identify individual compounds, the results can serve as a relative indicator for the presence of VOCs. 2. Approximately 200 gallons of potable water used during bedrock drilling. 3. MW-36 and MW-36R well installations were completed in the same borehole.		
30									
32									
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36									
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46									
48									

BORING LOG P:\1000S\1003.20\WORK\LOGS\1003.20.GPJ 2017 SANBORN HEAD V1.GLB 2017 SANBORN HEAD V1.GDT 10/26/21



Project: Granite State Landfill
 Location: Dalton, NH
 Project No.: 1003.20

Log of Monitoring Well MW-36R

Ground Elevation: 1122.8 ± feet
 TOC Elevation: 1125.69 ± feet
 PVC Elevation: 1125.39 ± feet
 Datum: NAVD 1988

Sanborn, Head & Associates, Inc.

Drilling Method: Geoprobe® 8150 LS Track Rig

Sampling Method: Sonic 6" / 4" Casing

Groundwater Readings

Date	Time	Depth to Water	Ref. Pt.	Depth of Casing	Depth of Hole	Stab. Time
07/15/21	16:30	16.43'	Ground Surface	10'	25'	1 Hour
07/16/21	07:30	9.5'	Ground Surface	10'	25'	14 Hours
07/16/21	09:20	11.89'	Top of PVC		Well Installed	Well Installed <30 Minutes

Drilling Company: Glacier Drilling, LLC

Foreman: M. Schock

Date Started: 07/15/21

Date Finished: 07/16/21

Logged By: P. Pryor

Checked By: T. White

BORING LOG P:\1000S\1003.20\WORKLOGS\1003.20.GPJ 2017 SANBORN HEAD V1.GLB 2017 SANBORN HEAD V1.GDT 10/26/21

Depth (ft)	Sample Information				Stratum		Geologic Description	Well Diagram	Well Description
	Sample No.	Depth (ft)	Pen/Rec (ft)	Field Testing Data	Log	Description			
-2									6" Dia. Protective Steel Casing with Locking Standpipe set in Concrete (-3 to 2')
0	S-1	0 - 5	5.0/ 4.9	PID: 8 ppmv		---0'--- FILL	S-1A (0 to 1.5'): Brown, fine to coarse SAND, some fine to coarse Gravel, little Silt. Moist. FILL.		Concrete Pad (0 to 0.5') Native Soil (0.5 to 1.3')
2						---1.5'--- BURIED TOPSOIL	S-1B (1.5 to 2.7'): Brown/dark brown, fine to coarse SAND, some Silt, little fine to coarse Gravel, trace ROOTS, trace Organic fragments. Moist. BURIED TOPSOIL.		Bentonite Chips (1.3 to 3.3')
						---2.7'--- BOULDER	S-1C (2.7 to 3.4'): Pulverized Boulder.		
4						---3.4'--- SAND & GRAVEL	S-1D (3.4 to 5'): Brown, fine to coarse SAND and fine to coarse Gravel, little Silt. Moist.		
6	S-2	5 - 10	5.0/ 5.0	PID: 6 ppmv		---5'--- GLACIAL TILL	S-2A (5 to 8.9'): Brown, Clayey SILT, some fine to coarse Sand, trace fine to medium Gravel. Moist to wet.		#1 Filter Sand (3.3 to 9')
8									
10	R-1	10 - 20	10.0/ 5.0	PID: NA		---8.9'--- GRANITE	S-2B (8.9 to 10'): Highly broken, pink, GRANITE. R-1 (10 to 20'): Hard, moderately weathered, pink, coarse-grained, GRANITE, Slightly to highly fractured.		Bentonite Pellets (9 to 12')
12									
14									2" Dia. Sch. 40 PVC Well Screen (0.010" Slots) (14 to 24')
16									
18									#1 Filter Sand (12 to 25')
20	R-2	20 - 25	5.0/ 4.5	PID: NA			R-2 (20 to 25'): Hard, fresh to slightly weathered, pink, coarse-grained, GRANITE, Slightly to moderately fractured, Numerous fractures exhibiting apparent iron staining.		
22									

Sanborn, Head & Associates, Inc.

Drilling Method: Geoprobe® 8150 LS Track Rig

Sampling Method: Sonic 6" / 4" Casing

Groundwater Readings

Date	Time	Depth to Water	Ref. Pt.	Depth of Casing	Depth of Hole	Stab. Time
07/20/21	10:00	Dry	Top of PVC	Well Installed	Well Installed	~2 Hours

Drilling Company: Glacier Drilling, LLC

Foreman: M. Schock

Date Started: 07/19/21

Date Finished: 07/20/21

Logged By: M. Stein

Checked By: T. White

Depth (ft)	Sample Information				Stratum		Geologic Description	Well Diagram	Well Description
	Sample No.	Depth (ft)	Pen/Rec (ft)	Field Testing Data	Log	Description			
-2									6" Dia. Protective Steel Casing with Locking Standpipe set in Concrete (-3 to 2')
0						-----0'-----	(0 to 30.2'): Refer to log MW-37R for stratum and geologic descriptions.		Concrete Pad (0 to 0.5') Native Soil (0.5 to 1')
2									Bentonite Chips (1 to 3')
4									2" Dia. Sch. 40 PVC Well Screen (0.010" Slots) (4.1 to 8.1')
6									#1 Filter Sand (3 to 8.5')
8									Silt Cap (8.1 to 8.3')
10									
12									
14									
16									
18									
20									
22									

BORING LOG P:\1000S\1003.20\WORKLOGS\1003.20.GPJ 2017 SANBORN HEAD V1.GLB 2017 SANBORN HEAD V1.GDT 10/26/21



Project: Granite State Landfill
 Location: Dalton, NH
 Project No.: 1003.20

Log of Monitoring Well MW-37

Ground Elevation: 1101.19 ± feet
 TOC Elevation: 1104.12 ± feet
 PVC Elevation: 1103.8 ± feet
 Datum: NAVD 1988

Sanborn, Head & Associates, Inc.

Drilling Method: Geoprobe® 8150 LS Track Rig

Sampling Method: Sonic 6" / 4" Casing

Groundwater Readings

Date	Time	Depth to Water	Ref. Pt.	Depth of Casing	Depth of Hole	Stab. Time
07/20/21	10:00	Dry	Top of PVC	Well Installed	Well Installed	~2 Hours

Drilling Company: Glacier Drilling, LLC

Foreman: M. Schock

Date Started: 07/19/21

Date Finished: 07/20/21

Logged By: M. Stein

Checked By: T. White

Depth (ft)	Sample Information				Stratum		Geologic Description	Well Diagram	Well Description
	Sample No.	Depth (ft)	Pen/Rec (ft)	Field Testing Data	Log	Description			
24									
26									
28									
30						-----30.2'-----	Boring terminated at 30.2 feet. No refusal encountered.		
32							NOTES: 1. Soil samples were screened for volatile organic compounds (VOCs) using a MiniRAE 3000 Photoionization Detector (PID) with a 10.6 eV lamp, calibrated to a 100 parts per million by volume (ppmv) isobutylene-in-air standard using a response factor of 1.0. Results are presented in ppmv; the typical detection limit is 1 ppmv. ND indicates not detected. NA indicates not available. The PID measures relative levels of VOCs. Although PID screening cannot be used directly to quantify VOC concentrations or identify individual compounds, the results can serve as a relative indicator for the presence of VOCs. 2. Approximately 250 gallons of potable water used during bedrock drilling. 3. MW-37 and MW-37R well installations were completed in the same borehole.		
34									
36									
38									
40									
42									
44									
46									
48									

BORING LOG P:\1000S\1003.20\WORK\LOGS\1003.20.GPJ 2017 SANBORN HEAD V1.GLB 2017 SANBORN HEAD V1.GDT 10/26/21



Project: Granite State Landfill
 Location: Dalton, NH
 Project No.: 1003.20

Log of Monitoring Well MW-37R

Ground Elevation: 1101.12 ± feet
 TOC Elevation: 1104.12 ± feet
 PVC Elevation: 1103.81 ± feet
 Datum: NAVD 1988

Sanborn, Head & Associates, Inc.

Drilling Method: Geoprobe® 8150 LS Track Rig

Sampling Method: Sonic 6" / 4" Casing

Groundwater Readings

Date	Time	Depth to Water	Ref. Pt.	Depth of Casing	Depth of Hole	Stab. Time
07/19/21	15:36	23.4'	Ground Surface	10'	24'	<20 Minutes
07/20/21	08:00	22.8'	Ground Surface	10'	29'	15 Hours
07/20/21	10:01	27.55'	Top of PVC		Well Installed	~2 Hours

Drilling Company: Glacier Drilling, LLC

Foreman: M. Schock

Date Started: 07/19/21

Date Finished: 07/20/21

Logged By: M. Stein

Checked By: T. White

BORING LOG P:\1000S\1003.20\WORKLOGS\1003.20.GPJ 2017 SANBORN HEAD V1.GLB 2017 SANBORN HEAD V1.GDT 10/26/21

Depth (ft)	Sample Information				Stratum		Geologic Description	Well Diagram	Well Description
	Sample No.	Depth (ft)	Pen/Rec (ft)	Field Testing Data	Log	Description			
-2									6" Dia. Protective Steel Casing with Locking Standpipe set in Concrete (-3 to 2')
0	S-1	0 - 5	5.0 / 5.0	PID: 2 ppmv		TOPSOIL	S-1A (0 to 0.4'): Dark brown, Moist. TOPSOIL.		Concrete Pad (0 to 0.5')
							S-1B (0.4 to 1'): Orange, SILT, few Roots. Moist.		Native Soil (0.5 to 1')
							S-1C (1 to 3.5'): Tan, SILT, trace fine to coarse Sand. Moist.		
2						SILT			Bentonite Chips (1 to 3')
4						BOULDER	S-1D (3.5 to 5'): Light tan/white, Granitic Cobbles/Boulders. Dry.		
6	S-2	5 - 10	5.0 / 5.0	PID: 4 ppmv		SAND	S-2A (5 to 8'): Light brown, fine to coarse SAND, little Silt. Moist.		#1 Filter Sand (3 to 8.5')
8				PID: NA			S-2B (8 to 10'): Medium hard, very slightly weathered, pink, medium to coarse grained, WEATHERED GRANITE.		
10	R-1	10 - 15	5.0 / 0.0	PID: NA			R-1 (10 to 15'): No recovery. Rock fabric washed away, reduced to Sand sized pink WEATHERED GRANITE.		Bentonite Chips (8.5 to 13')
16	R-2	15 - 20	5.0 / 1.0	PID: NA		GRANITE	R-2 (15 to 20'): Rock fabric reduced to corestones and Sand sized pink and white WEATHERED GRANITE.		2" Dia. Sch. 40 PVC Well Screen (0.010" Slots) (15 to 30')
20	R-3	20 - 24	4.0 / 3.0	PID: NA			R-3 (20 to 24'): Rock fabric reduced to corestones and Sand sized pink and white WEATHERED GRANITE.		#1 Filter Sand (13 to 30.2')
22									



Project: Granite State Landfill
 Location: Dalton, NH
 Project No.: 1003.20

Log of Monitoring Well MW-37R

Ground Elevation: 1101.12 ± feet
 TOC Elevation: 1104.12 ± feet
 PVC Elevation: 1103.81 ± feet
 Datum: NAVD 1988

Sanborn, Head & Associates, Inc.

Drilling Method: Geoprobe® 8150 LS Track Rig

Sampling Method: Sonic 6" / 4" Casing

Groundwater Readings

Date	Time	Depth to Water	Ref. Pt.	Depth of Casing	Depth of Hole	Stab. Time
07/19/21	15:36	23.4'	Ground Surface	10'	24'	<20 Minutes
07/20/21	08:00	22.8'	Ground Surface	10'	29'	15 Hours
07/20/21	10:01	27.55'	Top of PVC		Well Installed	~2 Hours

Drilling Company: Glacier Drilling, LLC

Foreman: M. Schock

Date Started: 07/19/21

Date Finished: 07/20/21

Logged By: M. Stein

Checked By: T. White

Depth (ft)	Sample Information				Stratum		Geologic Description	Well Diagram	Well Description
	Sample No.	Depth (ft)	Pen/Rec (ft)	Field Testing Data	Log	Description			
24	R-4	24 - 29	5.0 / 2.5	PID: NA	+	GRANITE	R-4 (24 to 29'): Rock fabric reduced to corestones and Sand sized pink and white WEATHERED GRANITE.		
26					+				
28					+				
30	R-5	29 - 30.2	1.2 / 0.5	PID: NA	+		R-5 (29 to 30.2'): No recovery. Rock fabric reduced to corestones and Sand sized pink and white WEATHERED GRANITE.		
30.2					-----		Boring terminated at 30.2 feet. No refusal encountered.		Silt Cap (30 to 30.2')
32							NOTES: 1. Soil samples were screened for volatile organic compounds (VOCs) using a MiniRAE 3000 Photoionization Detector (PID) with a 10.6 eV lamp, calibrated to a 100 parts per million by volume (ppmv) isobutylene-in-air standard using a response factor of 1.0. Results are presented in ppmv; the typical detection limit is 1 ppmv. ND indicates not detected. NA indicates not available. The PID measures relative levels of VOCs. Although PID screening cannot be used directly to quantify VOC concentrations or identify individual compounds, the results can serve as a relative indicator for the presence of VOCs. 2. Approximately 250 gallons of potable water introduced to bedrock during drilling activities. 3. MW-37 and MW-37R well installations were completed in the same borehole. 4. The presence of granite bedrock is consistent with the Bedrock Geologic Map of New Hampshire (Lyons et al., 1997), which describes Late Devonian granite of the New Hampshire Plutonic Suite in the vicinity of the site.		
34									
36									
38									
40									
42									
44									
46									
48									

BORING LOG P:\1000S\1003.20\WORKLOGS\1003.20.GPJ 2017 SANBORN HEAD V1.GLB 2017 SANBORN HEAD V1.GDT 10/26/21



Project: Granite State Landfill
 Location: Dalton, NH
 Project No.: 1003.20

Log of Monitoring Well MW-38

Ground Elevation: 1139.45 ± feet
 TOC Elevation: 1142.35 ± feet
 PVC Elevation: 1142.04 ± feet
 Datum: NAVD 1988

Sanborn, Head & Associates, Inc.

Drilling Method: Geoprobe® 8150 LS Track Rig

Sampling Method: Sonic 6" / 4" Casing

Groundwater Readings

Date: 07/22/21 Time: 14:01 Depth to Water: 25.98'

Ref. Pt. Top of PVC

Depth of Casing Well Installed
 Depth of Hole Well Installed

Stab. Time ~2 Hours

Drilling Company: Glacier Drilling, LLC

Foreman: M. Schock

Date Started: 07/21/21

Date Finished: 07/22/21

Logged By: M. Stein/ P. Pryor

Checked By: T. White

BORING LOG P:\1000S\1003.20\WORKLOGS\1003.20.GPJ 2017 SANBORN HEAD V1.GLB 2017 SANBORN HEAD V1.GDT 10/26/21

Depth (ft)	Sample Information				Stratum		Geologic Description	Well Diagram	Well Description
	Sample No.	Depth (ft)	Pen/Rec (ft)	Field Testing Data	Log	Description			
-2									6" Dia. Protective Steel Casing with Locking Standpipe set in Concrete (-3 to 2')
0						-----0'-----	(0 to 80'): Refer to log MW-38R for stratum and geologic descriptions.		2" Dia. Sch. 40 PVC Riser (-2.7 to 15')
2									Concrete Pad (0 to 0.5')
4									Native Soil (0.5 to 3')
6									
8									Bentonite Chips (3 to 13')
10									
12									
14									
16									2" Dia. Sch. 40 PVC Well Screen (0.010" Slots) (15 to 30')
18									
20									
22									#1 Filter Sand (13 to 31')



Project: Granite State Landfill
 Location: Dalton, NH
 Project No.: 1003.20

Log of Monitoring Well MW-38

Ground Elevation: 1139.45 ± feet
 TOC Elevation: 1142.35 ± feet
 PVC Elevation: 1142.04 ± feet
 Datum: NAVD 1988

Sanborn, Head & Associates, Inc.

Drilling Method: Geoprobe® 8150 LS Track Rig

Sampling Method: Sonic 6" / 4" Casing

Groundwater Readings

Date: 07/22/21 Time: 14:01 Depth to Water: 25.98'

Ref. Pt. Top of PVC

Depth of Casing: Well Installed
 Depth of Hole: Well Installed

Stab. Time: ~2 Hours

Drilling Company: Glacier Drilling, LLC

Foreman: M. Schock

Date Started: 07/21/21

Date Finished: 07/22/21

Logged By: M. Stein/ P. Pryor

Checked By: T. White

Depth (ft)	Sample Information				Stratum		Geologic Description	Well Diagram	Well Description
	Sample No.	Depth (ft)	Pen/Rec (ft)	Field Testing Data	Log	Description			
24									
26									
28									
30									Silt Cap (30 to 30.3')
32									
34									
36									
38									
40									
42									
44									
46									
48									

BORING LOG P:\1000S\1003.20\WORK\LOGS\1003.20.GPJ 2017 SANBORN HEAD V1.GLB 2017 SANBORN HEAD V1.GDT 10/26/21



Project: Granite State Landfill
 Location: Dalton, NH
 Project No.: 1003.20

Log of Monitoring Well MW-38

Ground Elevation: 1139.45 ± feet
 TOC Elevation: 1142.35 ± feet
 PVC Elevation: 1142.04 ± feet
 Datum: NAVD 1988

Sanborn, Head & Associates, Inc.

Drilling Method: Geoprobe® 8150 LS Track Rig

Sampling Method: Sonic 6" / 4" Casing

Groundwater Readings

Date	Time	Depth to Water	Ref. Pt.	Depth of Casing	Depth of Hole	Stab. Time
07/22/21	14:01	25.98'	Top of PVC	Well Installed	Well Installed	~2 Hours

Drilling Company: Glacier Drilling, LLC

Foreman: M. Schock

Date Started: 07/21/21

Date Finished: 07/22/21

Logged By: M. Stein/ P. Pryor

Checked By: T. White

Depth (ft)	Sample Information				Stratum		Geologic Description	Well Diagram	Well Description
	Sample No.	Depth (ft)	Pen/Rec (ft)	Field Testing Data	Log	Description			
50									
52									
54									
56									
58									
60									
62									
64									
66									
68									
70									
72									
74									

BORING LOG P:\1000S\1003.20\WORK\LOGS\1003.20.GPJ 2017 SANBORN HEAD V1.GLB 2017 SANBORN HEAD V1.GDT 10/26/21



Project: Granite State Landfill
 Location: Dalton, NH
 Project No.: 1003.20

Log of Monitoring Well MW-38

Ground Elevation: 1139.45 ± feet
 TOC Elevation: 1142.35 ± feet
 PVC Elevation: 1142.04 ± feet
 Datum: NAVD 1988

Sanborn, Head & Associates, Inc.

Drilling Method: Geoprobe® 8150 LS Track Rig

Sampling Method: Sonic 6" / 4" Casing

Groundwater Readings

Date	Time	Depth to Water	Ref. Pt.	Depth of Casing	Depth of Hole	Stab. Time
07/22/21	14:01	25.98'	Top of PVC	Well Installed	Well Installed	~2 Hours

Drilling Company: Glacier Drilling, LLC

Foreman: M. Schock

Date Started: 07/21/21

Date Finished: 07/22/21

Logged By: M. Stein/ P. Pryor

Checked By: T. White

Depth (ft)	Sample Information				Stratum		Geologic Description	Well Diagram	Well Description
	Sample No.	Depth (ft)	Pen/Rec (ft)	Field Testing Data	Log	Description			
76									
78									
80						-----80'-----	Boring terminated at 80 feet. No refusal encountered.		
82							NOTES: 1. Soil samples were screened for volatile organic compounds (VOCs) using a MiniRAE 3000 Photoionization Detector (PID) with a 10.6 eV lamp, calibrated to a 100 parts per million by volume (ppmv) isobutylene-in-air standard using a response factor of 1.0. Results are presented in ppmv; the typical detection limit is 1 ppmv. ND indicates not detected. NA indicates not available. The PID measures relative levels of VOCs. Although PID screening cannot be used directly to quantify VOC concentrations or identify individual compounds, the results can serve as a relative indicator for the presence of VOCs. 2. Approximately 275 gallons of potable water used during overburden/bedrock drilling. 3. MW-38 and MW-38R well installations were completed in the same borehole.		
84									
86									
88									
90									
92									
94									
96									
98									
100									

BORING LOG P:\1000S\1003.20\WORK\LOGS\1003.20.GPJ 2017 SANBORN HEAD V1.GLB 2017 SANBORN HEAD V1.GDT 10/26/21

Sanborn, Head & Associates, Inc.

Drilling Method: Geoprobe® 8150 LS Track Rig

Sampling Method: Sonic 6" / 4" Casing

Groundwater Readings

Date	Time	Depth to Water	Ref. Pt.	Depth of Casing	Depth of Hole	Stab. Time
07/22/21	08:00	26'	Ground Surface	40'	65'	15 Hours
07/22/21	14:00	34.21'	Top of PVC	Well Installed	Well Installed	<2 Hours

Drilling Company: Glacier Drilling, LLC

Foreman: M. Schock

Date Started: 07/21/21

Date Finished: 07/22/21

Logged By: M. Stein/ P. Pryor

Checked By: T. White

Depth (ft)	Sample Information				Stratum		Geologic Description	Well Diagram	Well Description
	Sample No.	Depth (ft)	Pen/Rec (ft)	Field Testing Data	Log	Description			
-2								6" Dia. Protective Steel Casing with Locking Standpipe set in Concrete (-3 to 2')	
0	S-1	0 - 5	5.0/5.0	PID: 2 ppmv		---0'--- TOPSOIL	S-1A (0 to 0.8'): Orange, Moist. TOPSOIL.	Concrete Pad (0 to 0.5')	
						---0.8'--- SANDY SILT	S-1B (0.8 to 1.6'): Light brown, SILT, some fine to medium Sand. Moist.		
2						---1.6'--- SILTY SAND	S-1C (1.6 to 2.4'): Light brown, fine SAND, some Silt. Moist.	Native Soil (0.5 to 3')	
						---2.4'---	S-1D (2.4 to 5'): Tan/light brown, fine to coarse SAND, some fine to coarse Gravel, little Silt. Moist.		
4									
6	S-2	5 - 10	5.0/4.5	PID: 5 ppmv			S-2 (5 to 10'): Tan/light brown, fine to coarse SAND, some fine to coarse Gravel, little Silt. Moist.		
8						GRAVELLY SAND		Bentonite Chips (3 to 13')	
10	S-3	10 - 15	5.0/5.0	PID: 4 ppmv			S-3 (10 to 15'): Tan/light brown, fine to coarse SAND, some fine to coarse Gravel, little Silt, little Cobbles, few Boulders. Moist.		
12									
						---12.7'--- BOULDER			
14						---14'---			
16	S-4	15 - 20	5.0/5.0	PID: 6 ppmv		GRAVELLY SAND	S-4A (15 to 18'): Tan/light brown, fine to coarse SAND, some fine to coarse Gravel, little Silt. Moist.		
18						---18'---	S-4B (18 to 20'): Tan, SILT to Clayey Silt, some fine to coarse Sand, trace fine Gravel. Moist.		
20	S-5	20 - 22	2.0/0.0	PID: NA		SANDY SILT	S-5 (20 to 22'): No recovery.		
22	S-6	22 - 25	3.0/2.0	PID: NA		---22'--- BOULDER	S-6 (22 to 25'): Pink Granite Boulder.	#1 Filter Sand (13 to 31')	

BORING LOG P:\1000S\1003.20\WORKLOGS\1003.20.GPJ 2017 SANBORN HEAD V1.GLB 2017 SANBORN HEAD V1.GDT 10/26/21



Project: Granite State Landfill
 Location: Dalton, NH
 Project No.: 1003.20

Log of Monitoring Well MW-38R

Ground Elevation: 1139.45 ± feet
 TOC Elevation: 1142.35 ± feet
 PVC Elevation: 1142.05 ± feet
 Datum: NAVD 1988

Sanborn, Head & Associates, Inc.

Drilling Method: Geoprobe® 8150 LS Track Rig

Sampling Method: Sonic 6" / 4" Casing

Groundwater Readings

Date	Time	Depth to Water	Ref. Pt.	Depth of Casing	Depth of Hole	Stab. Time
07/22/21	08:00	26'	Ground Surface	40'	65'	15 Hours
07/22/21	14:00	34.21'	Top of PVC	Well Installed	Well Installed	<2 Hours

Drilling Company: Glacier Drilling, LLC

Foreman: M. Schock

Date Started: 07/21/21

Date Finished: 07/22/21

Logged By: M. Stein/ P. Pryor

Checked By: T. White

Depth (ft)	Sample Information				Stratum		Geologic Description	Well Diagram	Well Description
	Sample No.	Depth (ft)	Pen/Rec (ft)	Field Testing Data	Log	Description			
24						BOULDER			
25 - 30	S-7	25 - 30	5.0 / 3.0	PID: NA		-----25'-----	S-7 (25 to 30'): Light brown, fine to coarse SAND, some fine Gravel, little Silt. Moist.		
26						GRAVELLY SAND			
28									
30	S-8	30 - 35	5.0 / 5.0	PID: 3 ppmv		-----30'-----	S-8 (30 to 35'): Olive/gray, SILT & CLAY, little fine to coarse Sand, trace fine to coarse Gravel. Moist. TILL.		
32						GLACIAL TILL			
32						-----32.2'----- COBBLE -----32.8'-----			
34									
35 - 40	S-9	35 - 40	5.0 / 5.0	PID: 3 ppmv			S-9 (35 to 40'): Olive/gray, SILT & CLAY, little fine to coarse Sand, trace fine to coarse Gravel. Moist. TILL.		
36									
38									
40	S-10	40 - 45	5.0 / 5.0	PID: 4 ppmv			S-10 (40 to 45'): Gray, SILT & CLAY, little fine to coarse Sand, grading to CLAY & SILT, some fine to coarse Sand, little fine Gravel. Moist. TILL.		
42						GLACIAL TILL			
44									
45 - 50	S-11	45 - 50	5.0 / 5.0	PID: 2 ppmv			S-11 (45 to 50'): Gray, CLAY & SILT, some fine to coarse Sand, little fine to coarse Gravel. Moist. TILL.		
46									
48									
									Bentonite Chips (31 to 66')

BORING LOG P:\1000S\1003.20\WORK\LOGS\1003.20.GPJ 2017 SANBORN HEAD V1.GLB 2017 SANBORN HEAD V1.GDT 10/26/21



Project: Granite State Landfill
 Location: Dalton, NH
 Project No.: 1003.20

Log of Monitoring Well MW-38R

Ground Elevation: 1139.45 ± feet
 TOC Elevation: 1142.35 ± feet
 PVC Elevation: 1142.05 ± feet
 Datum: NAVD 1988

Sanborn, Head & Associates, Inc.

Drilling Method: Geoprobe® 8150 LS Track Rig

Sampling Method: Sonic 6" / 4" Casing

Groundwater Readings

Date	Time	Depth to Water	Ref. Pt.	Depth of Casing	Depth of Hole	Stab. Time
07/22/21	08:00	26'	Ground Surface	40'	65'	15 Hours
07/22/21	14:00	34.21'	Top of PVC	Well Installed	Well Installed	<2 Hours

Drilling Company: Glacier Drilling, LLC

Foreman: M. Schock

Date Started: 07/21/21

Date Finished: 07/22/21

Logged By: M. Stein/ P. Pryor

Checked By: T. White

BORING LOG P:\1000S\1003.20\WORK\LOGS\1003.20.GPJ 2017 SANBORN HEAD V1.GLB 2017 SANBORN HEAD V1.GDT 10/26/21

Depth (ft)	Sample Information				Stratum		Geologic Description	Well Diagram	Well Description
	Sample No.	Depth (ft)	Pen/Rec (ft)	Field Testing Data	Log	Description			
50	S-12	50 - 55	5.0/5.0	PID: 3 ppmv	 GLACIAL TILL		S-12 (50 to 55'): Gray, CLAY & SILT, little fine to coarse Sand, trace fine to coarse Gravel, grading to CLAY & SILT, little fine to coarse Sand, trace fine Gravel. Moist. TILL.		
52									
54									
56	S-13	55 - 59	4.0/4.0	PID: 8 ppmv			S-13 (55 to 59'): Gray, CLAY & SILT, trace fine to coarse Sand, trace fine to coarse Gravel. Moist. TILL.		
58									
60	S-14	59 - 65	6.0/3.0	PID: 4 ppmv			S-14A (59 to 63'): Gray, CLAY & SILT, trace fine to coarse Sand, trace fine to coarse Gravel. Moist. TILL.		
62									
64							S-14B (63 to 65'): Light tan, Pulverized pink Granite. Moist.		
66	R-1	65 - 70	5.0/2.5	PID: NA			R-1 (65 to 70'): Soft, very severely weathered, tan/pink, coarse-grained, GRANITE.		
68									
70	R-2	70 - 75	5.0/4.7	PID: NA			R-2 (70 to 75'): Soft, very severely weathered, tan/pink, coarse-grained, GRANITE.		
72									
74									

2" Dia. Sch. 40 PVC Well Screen (0.010" Slots) (68 to 78')

#1 Filter Sand (66 to 80')



Project: Granite State Landfill
 Location: Dalton, NH
 Project No.: 1003.20

Log of Monitoring Well MW-38R

Ground Elevation: 1139.45 ± feet
 TOC Elevation: 1142.35 ± feet
 PVC Elevation: 1142.05 ± feet
 Datum: NAVD 1988

Sanborn, Head & Associates, Inc.

Drilling Method: Geoprobe® 8150 LS Track Rig

Sampling Method: Sonic 6" / 4" Casing

Groundwater Readings

Date	Time	Depth to Water	Ref. Pt.	Depth of Casing	Depth of Hole	Stab. Time
07/22/21	08:00	26'	Ground Surface	40'	65'	15 Hours
07/22/21	14:00	34.21'	Top of PVC	Well Installed	Well Installed	<2 Hours

Drilling Company: Glacier Drilling, LLC

Foreman: M. Schock

Date Started: 07/21/21

Date Finished: 07/22/21

Logged By: M. Stein/ P. Pryor

Checked By: T. White

Depth (ft)	Sample Information				Stratum		Geologic Description	Well Diagram	Well Description
	Sample No.	Depth (ft)	Pen/Rec (ft)	Field Testing Data	Log	Description			
76	R-3	75 - 80	5.0/5.0	PID: NA	++	GRANITE	R-3 (75 to 80'): Soft, very severely weathered, tan/pink, coarse-grained, GRANITE.		Silt Cap (78 to 78.3')
78					++				
80					-----80'		Boring terminated at 80 feet. No refusal encountered.		
82							NOTES: 1. Soil samples were screened for volatile organic compounds (VOCs) using a MiniRAE 3000 Photoionization Detector (PID) with a 10.6 eV lamp, calibrated to a 100 parts per million by volume (ppmv) isobutylene-in-air standard using a response factor of 1.0. Results are presented in ppmv; the typical detection limit is 1 ppmv. ND indicates not detected. NA indicates not available. The PID measures relative levels of VOCs. Although PID screening cannot be used directly to quantify VOC concentrations or identify individual compounds, the results can serve as a relative indicator for the presence of VOCs. 2. Approximately 550 gallons of potable water introduced to overburden/bedrock formations during drilling activities. 3. MW-38 and MW-38R well installations were completed in the same borehole. 4. The presence of granite bedrock is consistent with the Bedrock Geologic Map of New Hampshire (Lyons et al., 1997), which describes Late Devonian granite of the New Hampshire Plutonic Suite in the vicinity of the site.		
84									
86									
88									
90									
92									
94									
96									
98									
100									

BORING LOG P:\1000S\1003.20\WORKLOGS\1003.20.GPJ 2017 SANBORN HEAD V1.GLB 2017 SANBORN HEAD V1.GDT 10/26/21



Project: Granite State Landfill
 Location: Dalton, NH
 Project No.: 1003.20

Log of Monitoring Well MW-39

Ground Elevation: 1091.75 ± feet
 TOC Elevation: 1094.63 ± feet
 PVC Elevation: 1094.35 ± feet
 Datum: NAVD 1988

Sanborn, Head & Associates, Inc.

Drilling Method: Geoprobe® 8150 LS Track Rig

Sampling Method: Sonic 6"¼" Casing

Groundwater Readings

Date: 07/27/21 Time: 09:05 Depth to Water: 15.26'

Ref. Pt. Top of PVC

Depth of Casing: Well Installed
 Depth of Hole: Well Installed

Stab. Time: ~2 Hours

Drilling Company: Glacier Drilling, LLC

Foreman: M. Schock

Date Started: 07/26/21

Date Finished: 07/27/21

Logged By: P. Pryor

Checked By: T. White

Depth (ft)	Sample Information				Stratum		Geologic Description	Well Diagram	Well Description
	Sample No.	Depth (ft)	Pen/Rec (ft)	Field Testing Data	Log	Description			
-2								6" Dia. Protective Steel Casing with Locking Standpipe set in Concrete (-3 to 2')	
0						-----0'-----	(0 to 60'): Refer to log MW-39R for stratum and geologic descriptions.	2" Dia. Sch. 40 PVC Riser (-2.7 to 7')	Concrete Pad (0 to 0.5')
2									Native Soil (0.5 to 2')
4									Bentonite Chips (2 to 5')
6									
8									2" Dia. Sch. 40 PVC Well Screen (0.010" Slots) (7 to 17')
10									
12									#1 Filter Sand (5 to 19')
14									
16									
18									Silt Cap (17 to 17.3')
20									
22									

BORING LOG P:\1000S\1003.20\WORKLOGS\1003.20.GPJ 2017 SANBORN HEAD V1.GLB 2017 SANBORN HEAD V1.GDT 10/26/21



Project: Granite State Landfill
 Location: Dalton, NH
 Project No.: 1003.20

Log of Monitoring Well MW-39

Ground Elevation: 1091.75 ± feet
 TOC Elevation: 1094.63 ± feet
 PVC Elevation: 1094.35 ± feet
 Datum: NAVD 1988

Sanborn, Head & Associates, Inc.

Drilling Method: Geoprobe® 8150 LS Track Rig

Sampling Method: Sonic 6" / 4" Casing

Groundwater Readings

Date	Time	Depth to Water	Ref. Pt.	Depth of Casing	Depth of Hole	Stab. Time
07/27/21	09:05	15.26'	Top of PVC	Well Installed	Well Installed	~2 Hours

Drilling Company: Glacier Drilling, LLC

Foreman: M. Schock

Date Started: 07/26/21

Date Finished: 07/27/21

Logged By: P. Pryor

Checked By: T. White

Depth (ft)	Sample Information				Stratum		Geologic Description	Well Diagram	Well Description
	Sample No.	Depth (ft)	Pen/Rec (ft)	Field Testing Data	Log	Description			
24									
26									
28									
30									
32									
34									
36									
38									
40									
42									
44									
46									
48									

BORING LOG P:\1000S\1003.20\WORK\LOGS\1003.20.GPJ 2017 SANBORN HEAD V1.GLB 2017 SANBORN HEAD V1.GDT 10/26/21



Project: Granite State Landfill
 Location: Dalton, NH
 Project No.: 1003.20

Log of Monitoring Well MW-39

Ground Elevation: 1091.75 ± feet
 TOC Elevation: 1094.63 ± feet
 PVC Elevation: 1094.35 ± feet
 Datum: NAVD 1988

Sanborn, Head & Associates, Inc.

Drilling Method: Geoprobe® 8150 LS Track Rig

Sampling Method: Sonic 6" / 4" Casing

Groundwater Readings

Date	Time	Depth to Water	Ref. Pt.	Depth of Casing	Depth of Hole	Stab. Time
07/27/21	09:05	15.26'	Top of PVC	Well Installed	Well Installed	~2 Hours

Drilling Company: Glacier Drilling, LLC

Foreman: M. Schock

Date Started: 07/26/21

Date Finished: 07/27/21

Logged By: P. Pryor

Checked By: T. White

Depth (ft)	Sample Information				Stratum		Geologic Description	Well Diagram	Well Description
	Sample No.	Depth (ft)	Pen/Rec (ft)	Field Testing Data	Log	Description			
50									
52									
54									
56									
58									
60						-----60'-----	Boring terminated at 60 feet. No refusal encountered.		
62							NOTES: 1. Soil samples were screened for volatile organic compounds (VOCs) using a MiniRAE 3000 Photoionization Detector (PID) with a 10.6 eV lamp, calibrated to a 100 parts per million by volume (ppmv) isobutylene-in-air standard using a response factor of 1.0. Results are presented in ppmv; the typical detection limit is 1 ppmv. ND indicates not detected. NA indicates not available. The PID measures relative levels of VOCs. Although PID screening cannot be used directly to quantify VOC concentrations or identify individual compounds, the results can serve as a relative indicator for the presence of VOCs. 2. Approximately 125 gallons of potable water used during bedrock drilling. 3. MW-39 and MW-39R well installations were completed in the same borehole.		
64									
66									
68									
70									
72									
74									

BORING LOG P:\1000S\1003.20\WORK\LOGS\1003.20.GPJ 2017 SANBORN HEAD V1.GLB 2017 SANBORN HEAD V1.GDT 10/26/21

Sanborn, Head & Associates, Inc.

Drilling Method: Geoprobe® 8150 LS Track Rig

Sampling Method: Sonic 6"¼" Casing

Groundwater Readings

Date	Time	Depth to Water	Ref. Pt.	Depth of Casing	Depth of Hole	Stab. Time
07/27/21	09:09	30.24'	Top of PVC	Well Installed	Well Installed	15 Hours

Drilling Company: Glacier Drilling, LLC

Foreman: M. Schock

Date Started: 07/26/21

Date Finished: 07/27/21

Logged By: P. Pryor

Checked By: T. White

BORING LOG P:\1000S\1003.20\WORK\LOGS\1003.20.GPJ 2017 SANBORN HEAD V1.GLB 2017 SANBORN HEAD V1.GDT 10/26/21

Depth (ft)	Sample Information				Stratum		Geologic Description	Well Diagram	Well Description
	Sample No.	Depth (ft)	Pen/Rec (ft)	Field Testing Data	Log	Description			
-2									6" Dia. Protective Steel Casing with Locking Standpipe set in Concrete (-3 to 2')
0	S-1	0 - 5	5.0/5.0	PID: 8 ppmv		---0'--- TOPSOIL	S-1A (0 to 1.1'): Dark brown/orange, fine to coarse SAND, little Silt, trace fine to medium Gravel, frequent Organic Root fragments. Moist.		Concrete Pad (0 to 0.5')
2						---1.1'--- SAND & GRAVEL	S-1B (1.1 to 3.7'): Light brown, fine to coarse SAND, some fine to coarse Gravel, little Silt. Moist.		Native Soil (0.5 to 2')
4						---3.7'--- BOULDER	S-1C (3.7 to 5'): Light brown/tan, Pulverized Boulder debris.		Bentonite Chips (2 to 5')
6	S-2	5 - 10	5.0/5.0	PID: 4 ppmv		---5'--- GRAVELLY SAND	S-2A (5 to 6.3'): Light brown, fine to coarse SAND, some fine Gravel, little Silt. Moist.		
8						---6.3'--- SAND & GRAVEL	S-2B (6.3 to 10'): Brown, fine to coarse SAND and fine to coarse Gravel, little Silt. Moist.		
10	S-3	10 - 15	5.0/5.0	PID: 7 ppmv		---10'--- SILT & SAND	S-3A (10 to 11.4'): Brown/orange, fine to coarse SAND and SILT, little fine to medium Gravel. Wet.		
12						---11.4'--- GLACIAL TILL	S-3B (11.4 to 15'): Olive/gray/brown, Clayey SILT, little fine to coarse Sand, trace fine to coarse Gravel. Moist to wet. TILL.		#1 Filter Sand (5 to 19')
16	S-4	15 - 20	5.0/5.0	PID: 6 ppmv		GLACIAL TILL	S-4 (15 to 20'): Olive/gray, SILT & CLAY, little fine to coarse Sand, little fine to coarse Gravel. Moist. TILL. Cobble observed from 18.3 to 18.6 feet.		
20	S-5	20 - 25	5.0/4.8	PID: 5 ppmv		---20.4'--- BOULDER	S-5A (20 to 20.4'): Olive/gray, CLAY & SILT, little fine to coarse Sand, trace fine to coarse Gravel. Moist to wet. TILL.		
						---20.9'--- GLACIAL TILL	S-5B (20.4 to 20.9'): Light gray, Pulverized Boulder.		
22						GLACIAL TILL	S-5C (20.9 to 25'): Olive/gray, CLAY & SILT, trace fine to coarse Sand, trace fine to coarse Gravel. Moist. TILL.		



Project: Granite State Landfill
 Location: Dalton, NH
 Project No.: 1003.20

Log of Monitoring Well MW-39R

Ground Elevation: 1091.75 ± feet
 TOC Elevation: 1094.63 ± feet
 PVC Elevation: 1094.3 ± feet
 Datum: NAVD 1988

Sanborn, Head & Associates, Inc.

Drilling Method: Geoprobe® 8150 LS Track Rig

Sampling Method: Sonic 6" / 4" Casing

Groundwater Readings

Date	Time	Depth to Water	Ref. Pt.	Depth of Casing	Depth of Hole	Stab. Time
07/27/21	09:09	30.24'	Top of PVC	Well Installed	Well Installed	15 Hours

Drilling Company: Glacier Drilling, LLC

Foreman: M. Schock

Date Started: 07/26/21

Date Finished: 07/27/21

Logged By: P. Pryor

Checked By: T. White

Depth (ft)	Sample Information				Stratum		Geologic Description	Well Diagram	Well Description
	Sample No.	Depth (ft)	Pen/Rec (ft)	Field Testing Data	Log	Description			
24	S-6	25 - 30	5.0/5.0	PID: 7 ppmv	[Pattern]		S-6 (25 to 30'): Olive gray, SILT & CLAY, little fine to coarse Sand, trace fine to medium Gravel. Moist. TILL.	[Diagram]	
26									
28	S-7	30 - 35	5.0/4.9	PID: 9 ppmv	[Pattern]	GLACIAL TILL	S-7 (30 to 35'): Olive/gray, CLAY & SILT, little fine to coarse Sand, trace fine to medium Gravel. Moist. TILL.	[Diagram]	Bentonite Pellets (19 to 43')
30									
32	S-8	35 - 40	5.0/4.7	PID: 4 ppmv	[Pattern]		S-8 (35 to 40'): Olive/gray, CLAY & SILT, little fine to coarse Sand, trace fine to coarse Gravel. Moist. TILL.	[Diagram]	
34									
38	S-9	40 - 45	5.0/4.2	PID: NA	[Pattern]	-----40'-----	S-9 (40 to 45'): Tan/light gray, Pulverized weathered Granite Bedrock.	[Diagram]	
40									
42	S-10	45 - 50	5.0/5.0	PID: NA	[Pattern]	GRANITE	S-10 (45 to 50'): Tan, Pulverized weathered Granite Bedrock.	[Diagram]	2" Dia. Sch. 40 PVC Well Screen (0.010" Slots) (45 to 55')
44									
46									
48									

BORING LOG P:\1000S\1003.20\WORK\LOGS\1003.20.GPJ 2017 SANBORN HEAD V1.GLB 2017 SANBORN HEAD V1.GDT 10/26/21

Sanborn, Head & Associates, Inc.

Drilling Method: Geoprobe® 8150 LS Track Rig

Sampling Method: Sonic 6"¼" Casing

Groundwater Readings

Date	Time	Depth to Water	Ref. Pt.	Depth of Casing	Depth of Hole	Stab. Time
07/27/21	09:09	30.24'	Top of PVC	Well Installed	Well Installed	15 Hours

Drilling Company: Glacier Drilling, LLC

Foreman: M. Schock

Date Started: 07/26/21

Date Finished: 07/27/21

Logged By: P. Pryor

Checked By: T. White

BORING LOG P:\1000S\1003.20\WORKLOGS\1003.20.GPJ 2017 SANBORN HEAD V1.GLB 2017 SANBORN HEAD V1.GDT 10/26/21

Depth (ft)	Sample Information				Stratum		Geologic Description	Well Diagram	Well Description	
	Sample No.	Depth (ft)	Pen/Rec (ft)	Field Testing Data	Log	Description				
50	R-1	50 - 57	7.0/ 2.0	PID: NA	+		R-1 (50 to 57'): Severely weathered, pink/tan, coarse-grained, WEATHERED GRANITE.		#1 Filter Sand (43 to 57')	
52					+					
54					+	GRANITE				
56					+				Silt Cap (55 to 55.3')	
58	R-2	57 - 60	3.0/ 2.7	PID: NA	+		R-2 (57 to 60'): Severely weathered, pink/tan, coarse-grained, WEATHERED GRANITE.			Native Soil (57 to 60')
60					+	-----60'-----	Boring terminated at 60 feet. No refusal encountered.			
62	<p>NOTES:</p> <ol style="list-style-type: none"> Soil samples were screened for volatile organic compounds (VOCs) using a MiniRAE 3000 Photoionization Detector (PID) with a 10.6 eV lamp, calibrated to a 100 parts per million by volume (ppmv) isobutylene-in-air standard using a response factor of 1.0. Results are presented in ppmv; the typical detection limit is 1 ppmv. ND indicates not detected. NA indicates not available. The PID measures relative levels of VOCs. Although PID screening cannot be used directly to quantify VOC concentrations or identify individual compounds, the results can serve as a relative indicator for the presence of VOCs. Approximately 125 gallons of potable water introduced to bedrock during drilling activities. MW-39 and MW-39R well installations were completed in the same borehole. The presence of granite bedrock is consistent with the Bedrock Geologic Map of New Hampshire (Lyons et al., 1997), which describes Late Devonian granite of the New Hampshire Plutonic Suite in the vicinity of the site. 									
64										
66										
68										
70										
72										
74										

APPENDIX C
GROUNDWATER ELEVATION INFORMATION

APPENDIX C

GROUNDWATER ELEVATION INFORMATION

To identify seasonal high groundwater elevations within the Phase I area, data recorded from manual measurements and pressure transducer/data loggers were reviewed. Based on site measurements, seasonal high groundwater typically occurs in an approximately 7- to 8-week period from late-March to early-May. A summary of the seasonal high values and the corresponding dates is attached.

Using the seasonal high groundwater values, contours were developed for the site as follows:

- The contours outside the Phase I area are based on measurements from May 2020, which are considered representative of seasonal high groundwater at the site.
- The contours within and near the Phase I area were drawn based on the highest elevation values at each location, independent of year. The dates of each measurement within Phase I are indicated.

The contours within the Phase I area are considered conceptual because they were developed using the highest springtime high values measured at each water table monitoring well, rather than using one set of measurements recorded on a single date. The groundwater table contours within Phase I are therefore considered "conservative" in the sense that not all locations experience a seasonal groundwater high at the same time.

For monitoring well couplets MW-36, MW-38, and MW-39, which were installed in July 2021, the springtime highs were estimated by correcting the August 2021 measurements upward 5.5 feet to account for the observed annual variability, which has been shown to be approximately 5 feet in the Phase I area. Groundwater elevations at MW-35 and MW-37, which have been dry in July through October 2021, were estimated by adding 5.5 feet to the August 2021 elevations measured at MW-35R and MW-37R, respectively.

Attachments

Summary of Phase I Groundwater Table Seasonal High Elevations
Conceptual Seasonal High Groundwater Elevation Contour Plan

**Summary of Phase I
Groundwater Table Seasonal High Elevations
Granite State Landfill
Dalton, New Hampshire**

Location	Top of Bedrock Elevation	Historical High GW Elevation	Date of Seasonal High Groundwater Table Elevation	Method
MW-3	1176.94	1182.95	5/5/2020	Manual
MW-4	1112.16	1119.47	5/1/2021	Transducer
MW-5	1134.69	1147.32	3/26/2021	Transducer
MW-6	1138.93	1149.00	5/1/2021	Transducer
MW-7	1117.54	1136.66	5/5/2020	Manual
MW-10	1127.11	1130.73	5/4/2020	Manual
MW-11	1128.39	1136.29	4/26/2021	Manual
MW-12	1163.97	1172.48	5/1/2021	Transducer
MW-13	1177.16	1183.90	5/5/2020	Manual
MW-14	1143.37	1150.99	7/14/2020	Transducer
MW-21U		1081.10	5/4/2021	Transducer
MW-21L	1045.85	Lower overburden well - Not estimated		
MW-22	1093.07	1098.30	5/4/2020	Manual
MW-22R	1101.37	Bedrock well - Water table not estimated		
MW-35		1146.66	Estimated based on Aug. 2021 value at MW-35R	
MW-35R	1147.86	Bedrock surface is above seasonal high water table		
MW-36		1119.99	Estimated based on Aug. 2021 value	
MW-36R	1113.90	Bedrock well - Water table not estimated		
MW-37		1087.13	Estimated based on Aug. 2021 value at MW-37R	
MW-37R	1093.19	Bedrock well - Water table not estimated		
MW-38		1124.07	Estimated based on Aug. 2021 value	
MW-38R	1076.45	Bedrock well - Water table not estimated		
MW-39		1084.42	Estimated based on Aug. 2021 value	
MW-39R	1051.75	Bedrock well - Water table not estimated		

Notes:

1. The highest groundwater elevation at MW-14 was recorded on July 14, 2020. The second highest groundwater elevation at MW-14 was 0.01 feet lower, and was recorded on March 26, 2021, consistent with springtime highs recorded at other locations in Phase I. To be conservative, the July 2020 values was used for MW-14.
2. For monitoring well couplets MW-36, MW-38, and MW-39, which were installed in July 2021, the springtime highs were estimated by correcting the August 2021 measurements upward 5.5 feet to account for the observed annual variability, which has been shown to be approximately 5 feet. Groundwater elevations at MW-35 and MW-37, which have been dry in July through October 2021, were estimated by adding 5.5 feet to the August 2021 elevations measured at MW-35R and MW-37R, respectively.

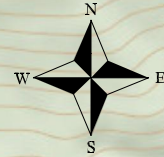


Figure C.1

Conceptual Seasonal High Groundwater Elevation Contour Plan

Hydrogeologic Supplement

Granite State Landfill
Dalton, New Hampshire

Drawn By: E. Wright
Designed By: L. Corenthall
Reviewed By: T. White
Project No: 1003.20
Date: October 2021

Figure Narrative
This figure depicts the conceptual seasonal high groundwater contours at the site. Based on site measurements, seasonal high groundwater typically occurs in an approximately 7- to 8-week period from late-March to early-May. The following approach was used to develop the groundwater contours:

- The contours outside the Phase I area are based on measurements from May 2020, which are considered representative of seasonal high groundwater at the site.

- The contours within and near the Phase I area were drawn based on the highest elevation values at each location, independent of year. The dates of each measurement within Phase I are indicated.

Notes

1. Variations in groundwater elevations are expected to occur due to changes in precipitation, temperature, and other factors not evident at the time water level measurements were obtained.
2. Refer to figure narrative for a discussion of how groundwater contours were developed.
3. Groundwater elevations in wells screened in bedrock are displayed but were not used in developing the contours.
4. Refer to previous figures for additional notes.

Legend

- Project property line
- Gravel road
- Wetland
- Proposed landfill limit
- MW-1 Monitoring well
- SG-1 Surface water staff gauge/sampling location
- P-1 Piezometer
- B-1 Geological boring (black indicates not surveyed)
- Inferred groundwater elevation contour (ft) (dashed where less constrained)
- 1160.82 Groundwater elevation (ft)
- Groundwater flow direction

Refer to the text of supplement for additional discussion.

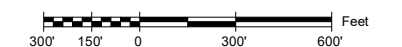
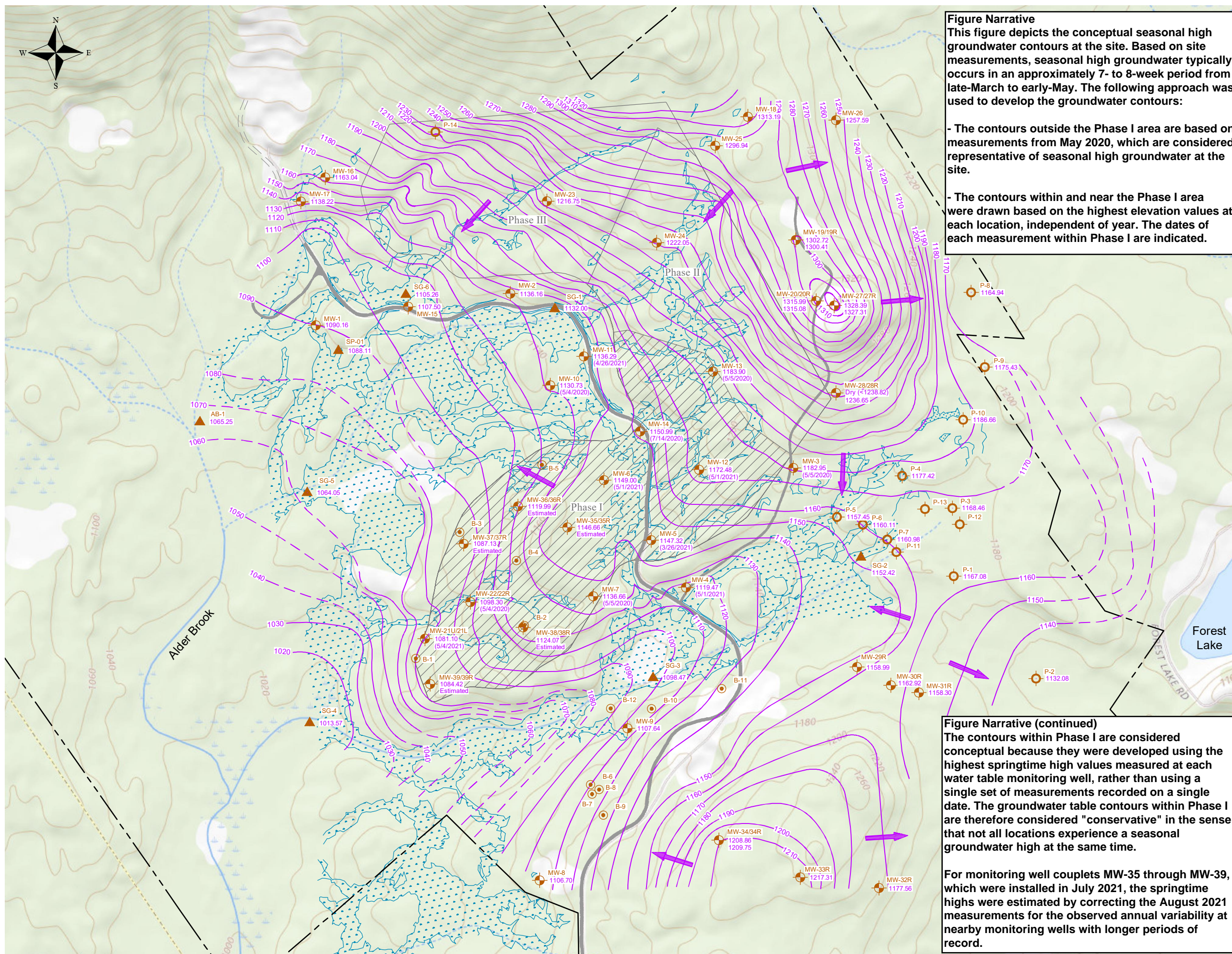


Figure Narrative (continued)
The contours within Phase I are considered conceptual because they were developed using the highest springtime high values measured at each water table monitoring well, rather than using a single set of measurements recorded on a single date. The groundwater table contours within Phase I are therefore considered "conservative" in the sense that not all locations experience a seasonal groundwater high at the same time.

For monitoring well couplets MW-35 through MW-39, which were installed in July 2021, the springtime highs were estimated by correcting the August 2021 measurements for the observed annual variability at nearby monitoring wells with longer periods of record.



APPENDIX D
DROUGHT INFORMATION

APPENDIX D

DROUGHT INFORMATION

As indicated on NHDES' 2021 Drought Updates and Resources website¹, drought conditions persisted in northern New Hampshire in summer 2021, and conditions in Grafton and Coos Counties and elsewhere in northern New Hampshire have been drier than average since mid-2020. To track drought information for northern New Hampshire in 2021, records from the U.S. Drought Monitor and U.S. Geological Survey (USGS) were compiled and reviewed.

A summary of the publicly available information is included below. As discussed in the main text, the groundwater conditions at the GSL site may not track exactly with the indications of the drought conditions on a county-wide basis. For example, spring 2020 groundwater elevations, measured before an indication of drought in either Coos or Grafton Counties on U.S. Drought Monitor, were in some cases exceeded by groundwater elevations in spring 2021 (e.g., MW-4, MW-5, MW-6, MW-11, MW-12, and MW-21U), when portions of both counties were indicated as “abnormally dry” or in “moderate drought”. Despite potential localized differences, drought conditions will continue to be tracked to provide a context to site groundwater elevation measurements.

U.S. DROUGHT MONITOR

To evaluate drought conditions in Coos and Grafton Counties² in 2021, data from the U.S. Drought Monitor³ were reviewed. As indicated in the plots in Appendix D.1, fall 2020 was a dry period in both counties with 100% of each county in the “moderate drought” category for several months toward the end of the year, with 90% to 100% of both counties in the “severe drought” category for several weeks in late September 2020 and early October 2020.

A summary of 2021 conditions for Coos and Grafton Counties. is provided below.

- In early 2021, approximately 50% to 60% of both counties experienced “abnormally dry” or “moderate drought” conditions, which persisted into the summer when up to 100% of both counties experienced “abnormally dry” conditions.
- Coos County indicated up to approximately 20% of the county in “severe drought” in July, decreasing to less than 2-3% of the area by August, but continuing through September and October. Approximately 90% of Coos County remained in either “abnormally dry” or “moderate drought” through mid-October.
- The drought rating did not reach “severe” in Grafton County in summer 2021, and instead the “moderate drought” attenuated toward the end of July and approximately 40% of the county remained “abnormally dry” through approximately mid-September,

¹ <https://www.des.nh.gov/climate-and-sustainability/storms-and-emergencies/drought>

² The Coos-Grafton County line bisects the GSL project property.

³ <https://droughtmonitor.unl.edu/DmData/TimeSeries.aspx>

when the overall area in this category declined to approximately 15% through mid-October.

As indicated in the 2000-2021 data plotted in Appendix D.1, fall 2020 and summer 2021 had a higher percentage area in the “moderate” and “severe” drought categories than most years since 2001-2002 (Coos County) and 2017 (Grafton County).

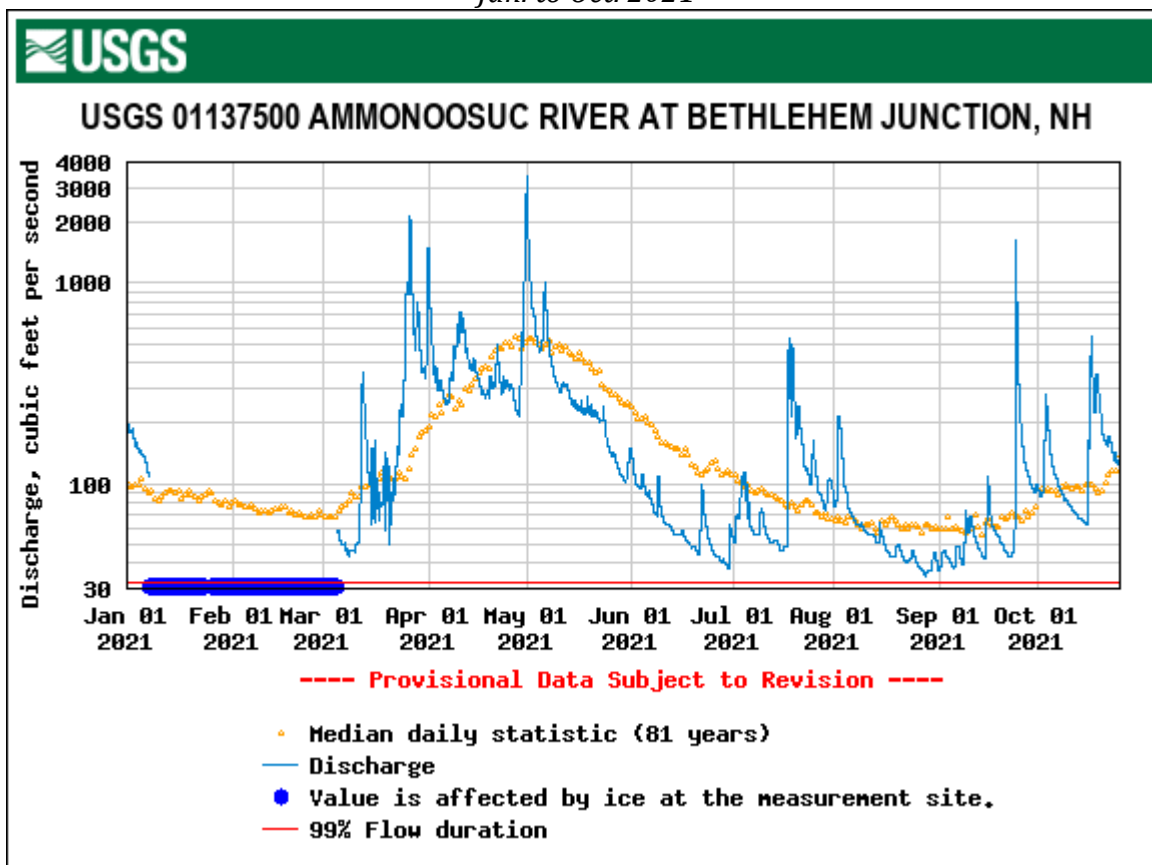
USGS – AMMONOOSUC RIVER AT BETHLEHEM JUNCTION

Surface water baseflows can provide an indication of the persistence of drought conditions. As such, USGS streamflow data for the Ammonoosuc River at Bethlehem Junction (Station 01137500; located approximately 5.3 miles southeast [upstream] of the confluence of Alder Brook and the Ammonoosuc River)⁴ were reviewed to evaluate conditions during 2021.

The USGS plot of average daily discharge (refer to Exhibit D.1 below) indicated that beginning in approximately mid-May, the flow in the Ammonoosuc River was generally below the long-term average for this station until early July, when average daily flows began to generally increase and were above the long term average from mid-July to early August 2021. From early August to early September, average daily flows in the Ammonoosuc River once again declined below the long-term average. From mid-September until the date of this report (October 24, 2021), flows in the Ammonoosuc increased and were generally consistent with the long-term average.

⁴ https://waterdata.usgs.gov/nwis/uv/?site_no=01137500

**Exhibit D.1 – Average Daily Discharge
 Ammonoosuc River at Bethlehem Junction, NH
 Jan. to Oct. 2021**

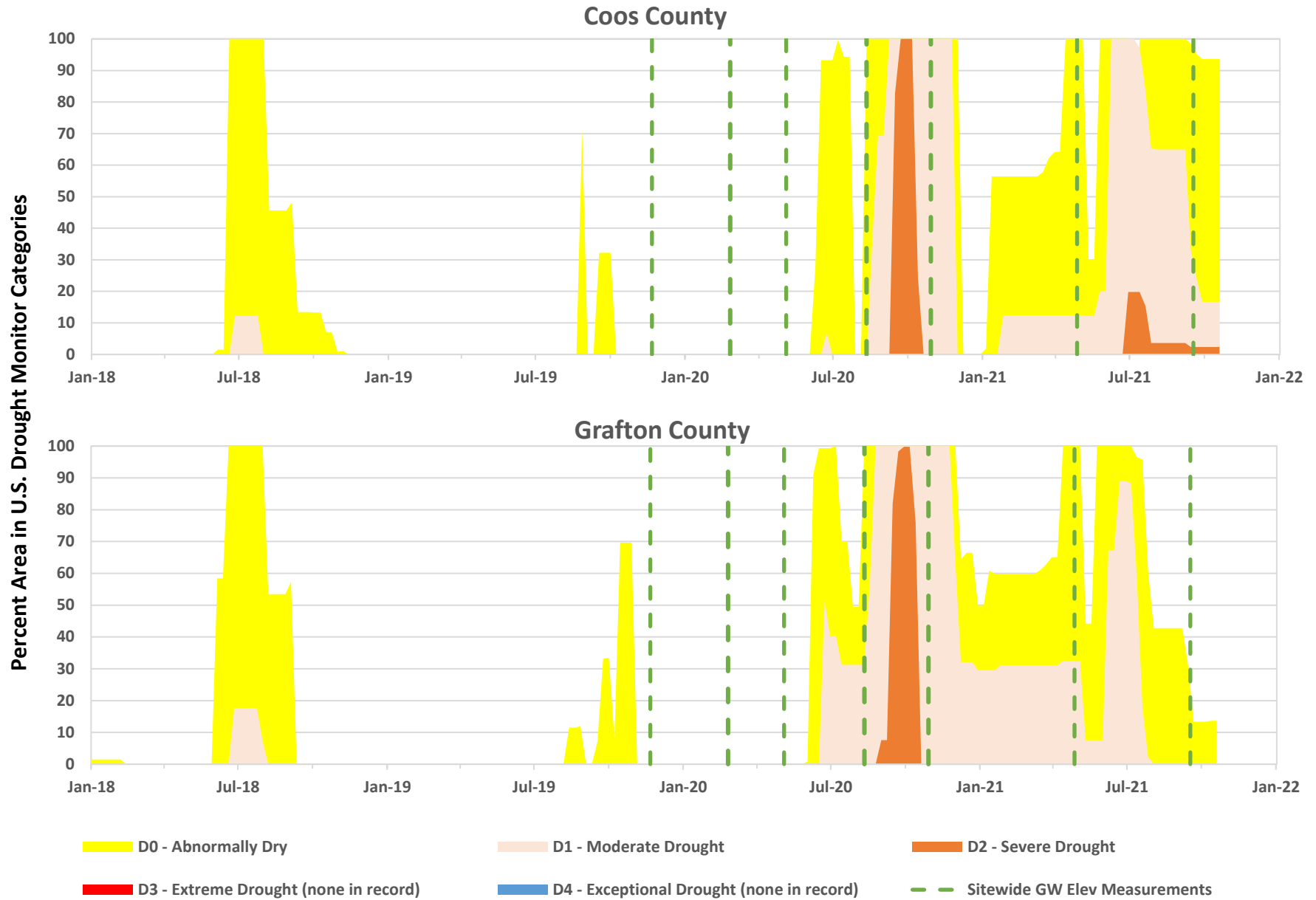


To further evaluate the persistence of low flow conditions in the Ammonoosuc River during summer 2021 and compare measurements to recent flows (i.e., the previous five years), we compiled data for the minimum daily flows for the period 2016 through October 24, 2021 (Appendix D.2).

As the plot in Appendix D.2 indicates, the minimum daily flows in the Ammonoosuc River were generally below the previous five years from early June through mid-July. Beginning in mid-July 2021, flows increased and were generally consistent with the recent summer flows until mid-August 2021 when minimum flow values decreased and were generally below flows recorded in the previous five years. Beginning in early September 2021, the minimum daily flows began to increase and after mid-September, flows were generally consistent with measurements recorded in the previous five years.

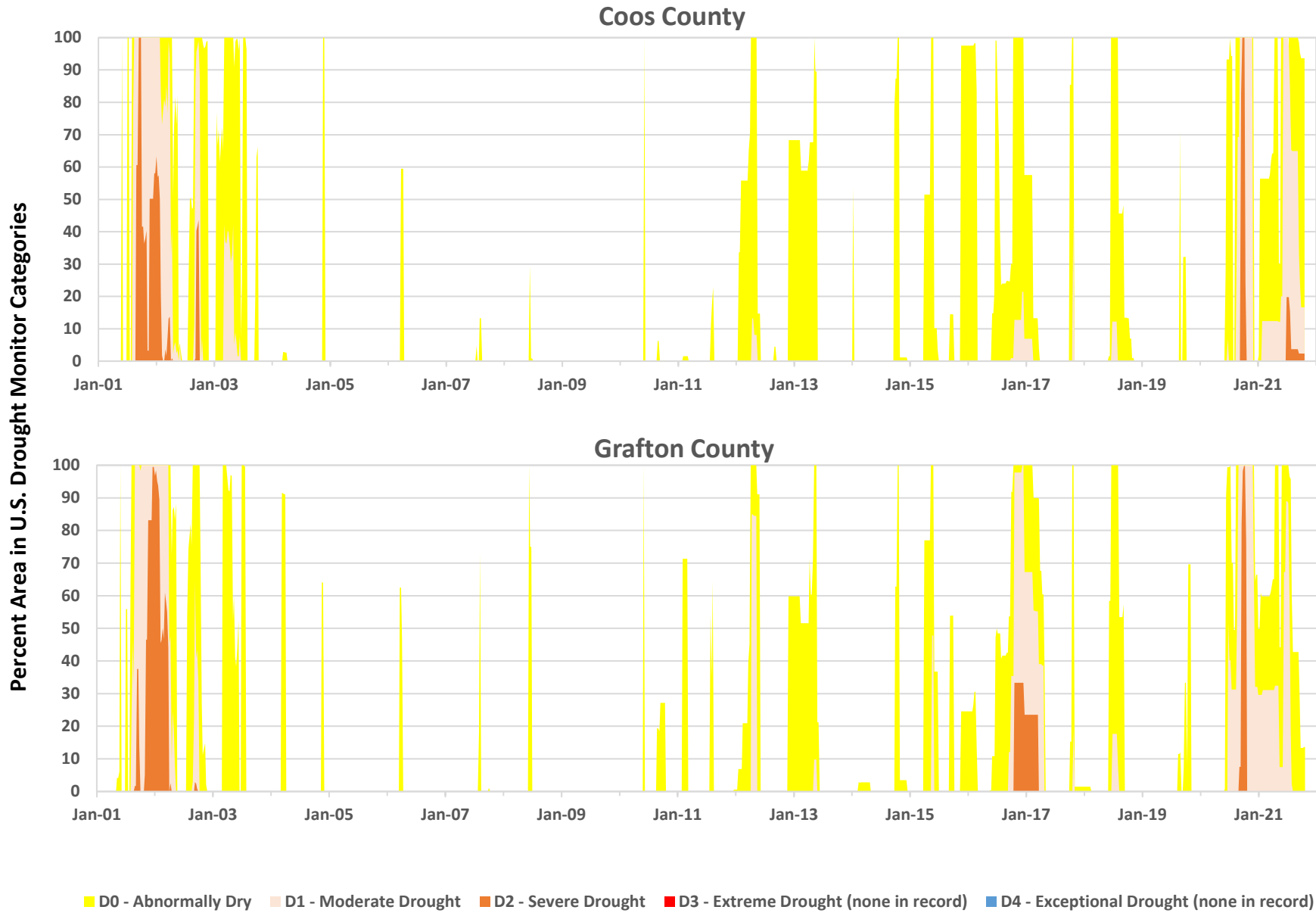
APPENDIX D.1
U.S. DROUGHT MONITOR INFO

**U.S. Drought Monitor Data
Coos and Grafton Counties, New Hampshire
2018-2021**



Data obtained from U.S. Drought Monitor: <https://droughtmonitor.unl.edu/DmData/TimeSeries.aspx>

**U.S. Drought Monitor Data
Coos and Grafton Counties, New Hampshire
2001-2021**

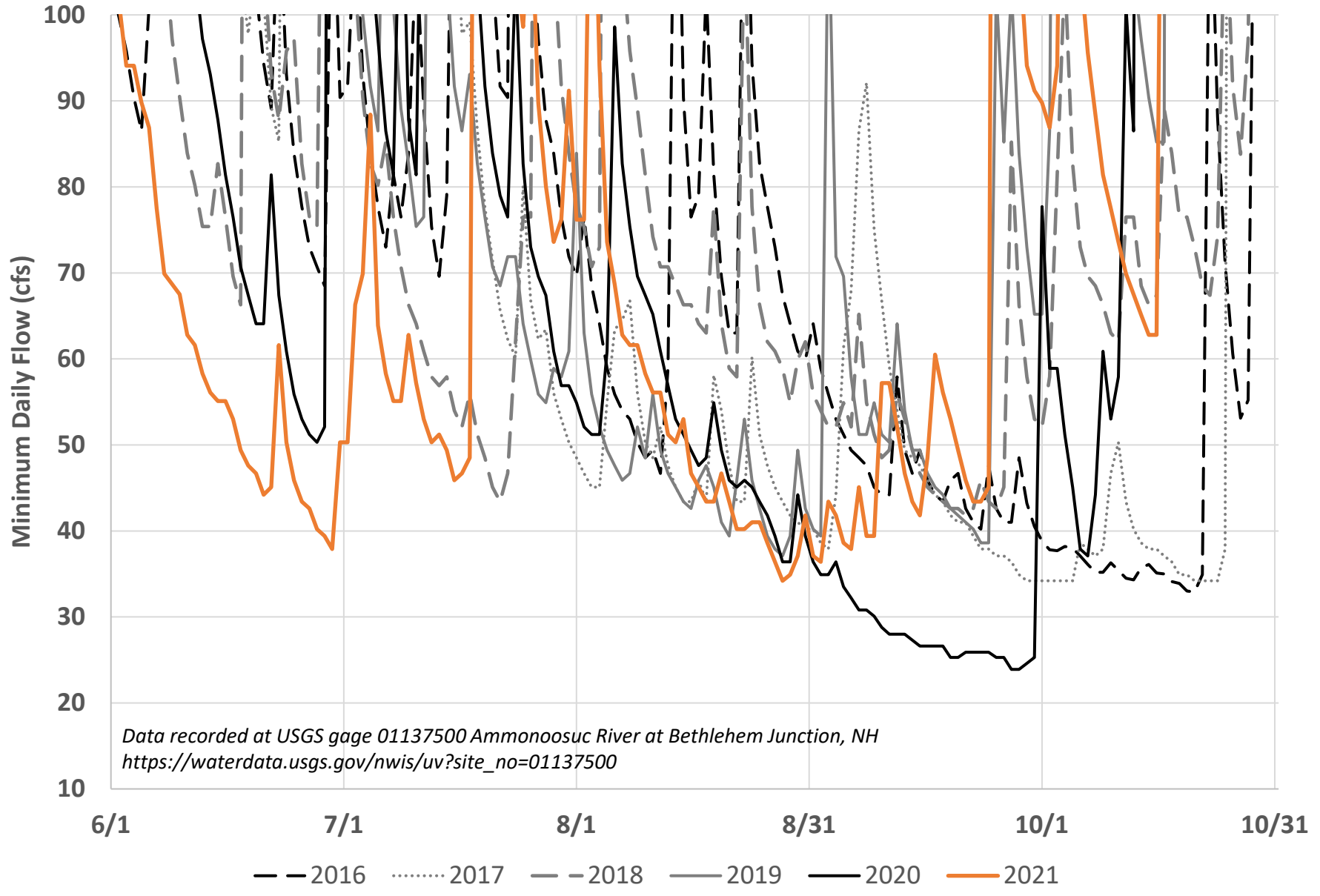


Data obtained from U.S. Drought Monitor: <https://droughtmonitor.unl.edu/DmData/TimeSeries.aspx>

APPENDIX D.2

USGS AMMONOOSUC RIVER FLOW DATA

Ammonoosuc River Minimum Daily Flows - 2016-2021



Enclosure #2

CMA Groundwater Separation – Wetland Areas

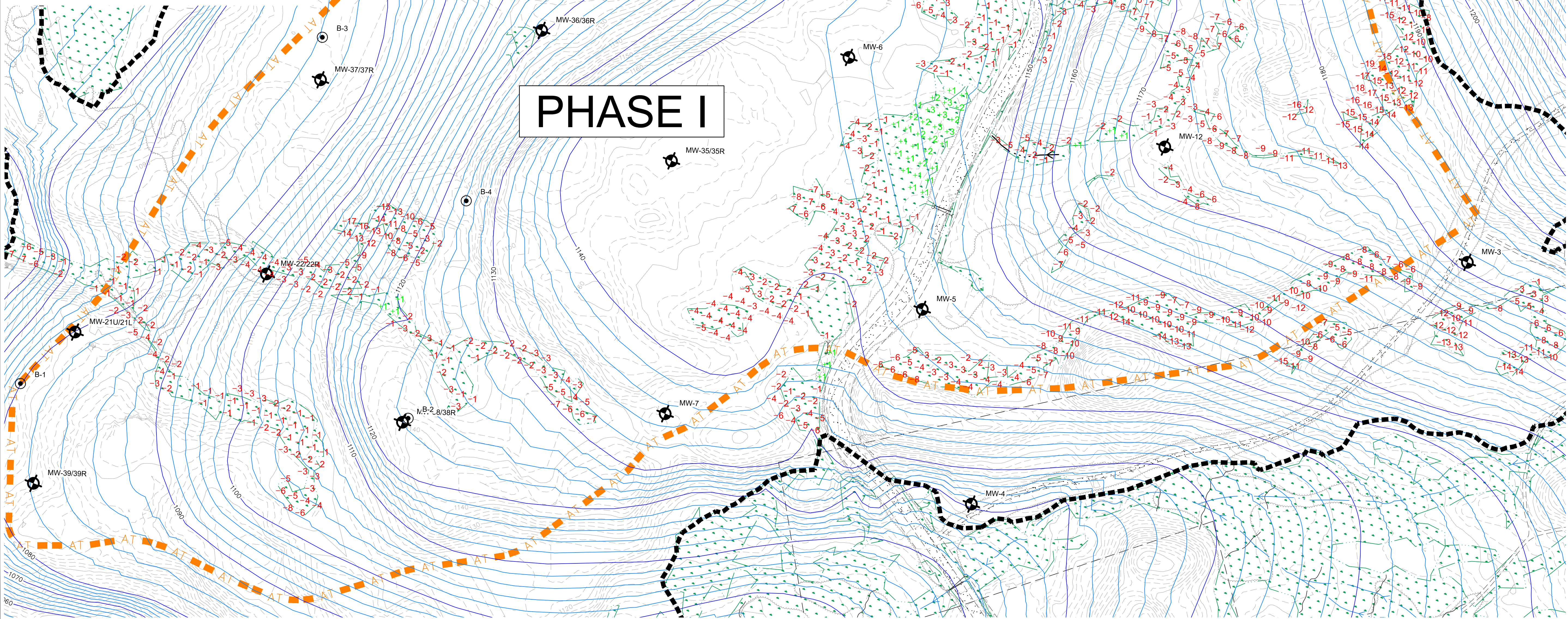
Figure

Notes:

- Existing topography was created by Horizons Engineering of Littleton, New Hampshire. It is a composite survey created from Aerial Survey performed on May 7, 2018 by Aerial Survey and Photo Inc., ground survey along Douglas Drive by Horizons Engineering, and 2015 Lidar Topography. Horizontal datum is based on NAD83 NH State Plane coordinates system and the Vertical datum is based on NAVD88.
- Existing conditions Base Map provided by Horizons Engineering of Littleton, New Hampshire. Existing features composed from site surveys and Aerial Survey performed on May 7, 2018.
- Wetlands delineated by Barry Keith, CWS #87.
- The Red and Green Cut/Fill marks show the separation distance between the existing topography and the seasonal high groundwater table.

Legend

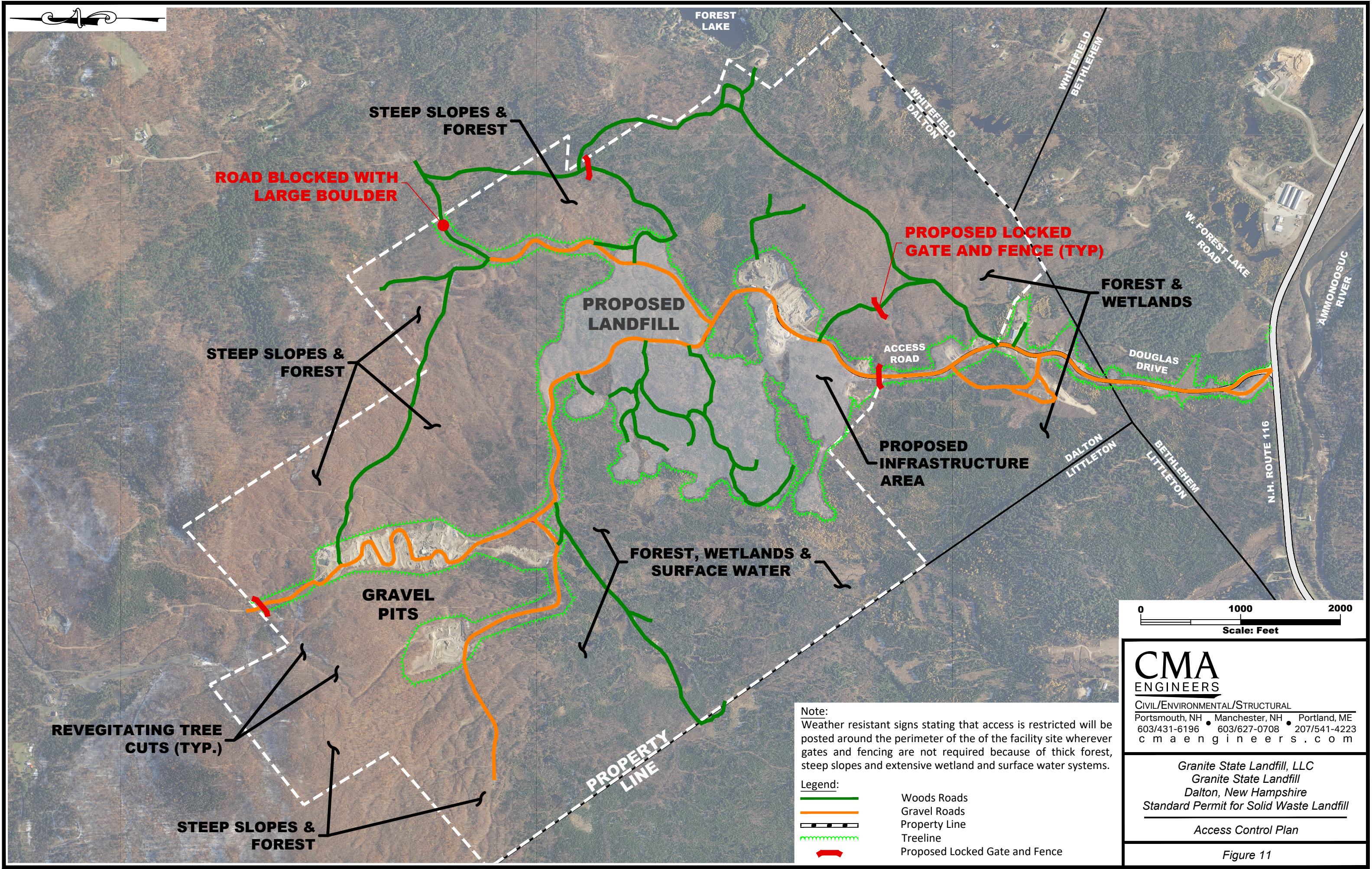
- Existing Property Line
- Existing Edge of Gravel
- Existing Edge of Pavement
- Existing Perennial Stream
- Existing Intermittent Stream
- Existing Wetlands
- Existing Contours 10'
- Existing Contours 2'
- Groundwater Contours 10'
- Groundwater Contours 2'
- Phase I Anchor Trench
- Limit of Disturbance
- +10 Height Groundwater above Topography
- 25 Height Groundwater below Topography
- MW-1 Existing Monitoring Well



<p>CMA ENGINEERS CIVIL/ENVIRONMENTAL/STRUCTURAL Portsmouth, NH 603/431-6196 Manchester, NH 603/627-0708 Portland, ME 207/641-4223 c m a e n g i n e e r s . c o m</p>		<p>no. _____</p> <p>revision _____</p> <p>date _____</p>
<p>designed by: _____</p> <p>drawn by: ATR</p> <p>checked by: _____</p> <p>approved by: _____</p>	<p>date: October 2021</p> <p>project no: 1101</p>	<p>scale: 1" = 100'</p> <p>0 100' 200'</p>
<p>Granite State Landfill, LLC Dalton, New Hampshire NHDES Standard Permit for Solid Waste Landfill Application Groundwater Separation Wetland Areas</p>		<p>drawing no. 1</p> <p>sheet: 1 of 1</p>

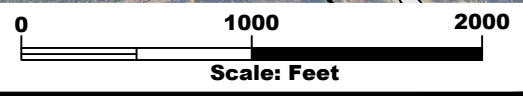
Enclosure #3

CMA Boundary Control Figure



Note:
 Weather resistant signs stating that access is restricted will be posted around the perimeter of the of the facility site wherever gates and fencing are not required because of thick forest, steep slopes and extensive wetland and surface water systems.

- Legend:**
- Woods Roads
 - Gravel Roads
 - Property Line
 - ~ Treeline
 - |- Proposed Locked Gate and Fence



CMA
ENGINEERS
 CIVIL/ENVIRONMENTAL/STRUCTURAL
 Portsmouth, NH • Manchester, NH • Portland, ME
 603/431-6196 • 603/627-0708 • 207/541-4223
 c m a e n g i n e e r s . c o m

Granite State Landfill, LLC
Granite State Landfill
Dalton, New Hampshire
Standard Permit for Solid Waste Landfill

Access Control Plan

Figure 11

Enclosure #4

GSL Draft Financial Assurance Mechanism

CLOSURE STANDBY TRUST AGREEMENT [TEMPLATE]

Standby Trust Agreement (the "Agreement") entered into as of _____, 20____ by and between Granite State Landfill LLC, a New Hampshire Limited Liability Company, with a principal place of business at 581 Trudeau Road, Bethlehem, NH, 03574 (the "Grantor") and U.S. Bank, 190 South LaSalle Street, Chicago, Illinois 60603 (the "Trustee").

PREAMBLE

The Grantor owns and operates a solid waste facility located at Dalton, New Hampshire (the "Facility"). The Facility consists of a landfill and is permitted by the New Hampshire Department of Environmental Services (NHDES) under **Solid Waste Management Facility Standard Permit No. _____** (the "Permit"). **The Permit was issued on [Date of Issuance].**

The Grantor is required under the laws of the State of New Hampshire, in particular New Hampshire RSA 149-M and the regulations duly promulgated there under as they may be amended from time to time, and under the terms of the Permit, to perform closure of the Facility at the end of the Facility's operations and to provide the necessary thirty-year post-closure monitoring and maintenance of the Facility. The closure and post-closure activities that must be performed by the Grantor are set forth in the Facility's approved closure plan, incorporated in the Permit, as it may be amended from time to time with the approval of NHDES.

The Grantor is further required to provide financial assurance to the State of New Hampshire that funds will be available in the future to cover the cost of all required closure and post-closure activities of the Facility. The Grantor has elected to satisfy its obligation to provide financial assurance for the Facility by obtaining a **SURETY BOND FOR CLOSURE** in the amount of **\$15,192,100 (FIFTEEN MILLION ONE HUNDRED NINETY TWO THOUSAND ONE HUNDRED DOLLARS)** from Evergreen National Indemnity Company and by establishing this standby trust agreement, both for the benefit of the State of New Hampshire.

The Grantor, acting through its duly authorized officers, has selected the Trustee to fulfill the obligations identified for the Trustee under this Agreement and the Trustee is willing to act in that capacity and to fulfill its obligations under this Agreement.

THEREFORE, the Grantor and the Trustee agree as follows:

Section 1. Identification of Facility and Closure Work.

(a) This Agreement pertains to the Facility, as more specifically described in the Permit, the Closure Work and to the **Surety Bond**, a copy of which is attached as **Appendix A**. No provision is hereby made for closure of other existing or proposed phases of the Facility.

(b) The Closure Work is defined as all work, materials, labor or other services required under the Facility's closure plan, permits, approvals related thereto and/or laws and rules of the State of New

Hampshire, as they may be amended from time to time, to carry out closure and 30 years of post-closure monitoring and maintenance of the Facility.

(c) Current estimates for the cost of the Closure Work total **\$15,192,100 (FIFTEEN MILLION ONE HUNDRED NINETY TWO THOUSAND ONE HUNDRED DOLLARS)**. The cost of the Closure Work may be revised from time to time as necessary to more accurately reflect actual anticipated costs.

Section 2. Establishment of Fund. Pursuant to the conditions of this Agreement, the Grantor and the Trustee hereby establish a standby trust fund (the "Fund") for the benefit of the State of New Hampshire, through its Department of Environmental Services, Waste Management Division. The Fund is dedicated exclusively to the Closure Work at the Facility. The Grantor and the Trustee intend that no third party have access to the Fund except as herein provided. The Commissioner of NHDES, or the Commissioner's duly appointed designee, shall exercise all powers and responsibilities given to the State of New Hampshire herein. The Commissioner may designate another state official to exercise those powers and responsibilities in his or her stead with 10 days written notice to the Trustee and Grantor.

Section 3. Payment Comprising the Fund.

(a) The Fund is established initially with the delivery and deposit of the **Surety Bond** with the Trustee. The amount guaranteed under the **Surety Bond** shall be deposited in the Fund in the event payment is triggered under the **Surety Bond** and funds are received by the Trustee.

(b) The Fund will consist of monies paid under the **Surety Bond**, any other cash or securities acceptable to the Trustee subsequently deposited in the Fund, and all earnings, interest and profits thereon, less any payments or distributions made by the Trustee pursuant to this Agreement.

(c) The Fund shall be held by the Trustee, in trust, as hereinafter provided. The Trustee shall not be responsible nor shall it undertake any responsibility for the amount or adequacy of any payments necessary to discharge any obligations of the Grantor, nor shall the Trustee have any duty to collect such payments from the Grantor or Surety.

Section 4. Payment for Closure Work. Upon receipt of funds from the Surety, the Trustee shall make payments from the Fund as the Commissioner shall direct in writing to provide for the payment of the Closure Work consistent with this Agreement. The Trustee shall reimburse the Grantor or other persons as specified by the Commissioner from the Fund for Closure Work expenditures in such amounts as the Commissioner shall direct in writing. In addition, the Trustee shall refund to the Grantor such amounts as NHDES specifies in writing. Upon refund, such refunds shall no longer constitute part of the Fund as defined herein. The Trustee shall account for each disbursement from the Fund consistent with the Commissioner's instructions. The Trustee shall notify the Commissioner and the Grantor when all monies have been disbursed.

Section 5. Trustee Management. The Trustee shall invest and reinvest the principal and income of the Fund and keep the Fund invested as a single fund, without distinction between principal and income, in accordance with general investment policies and guidelines which the Grantor may

communicate in writing to the Trustee from time to time, subject to the provisions of this Section and state law. All investments shall provide for the preservation of the principal of the Fund. In investing, reinvesting, exchanging, selling, and managing the Fund, the Trustee shall discharge its duties with respect to the Fund solely in the interest of NHDES, the beneficiary, and with the care, skill, prudence and diligence under the circumstances then prevailing which persons of prudence, acting in a like capacity and familiar with such matters, would use in the conduct of an enterprise of a like character and with like aims; except that:

(a) Securities or other obligations of the Grantor, or any other owner or operator of the facilities, or any of their affiliates as defined in the Investment Company Act of 1940, as amended, 15 U.S.C. 80a-2.(a), shall not be acquired or held, unless they are securities or other obligations of the federal or a state government;

(b) The Trustee is authorized to invest the Fund in time or demand deposits of the Trustee, to the extent insured by an agency of the federal or state government; and

(c) The Trustee is authorized to hold cash awaiting investment or distribution un-invested for a reasonable time and without liability for the payment of interest thereon.

Section 6. Commingling and Investment. The Trustee is expressly authorized in its discretion:

(a) To transfer from time to time any or all of the assets of the Fund to any common, commingled, or collective trust fund created by the Trustee in which the Fund is eligible to participate, subject to all of the provisions thereof, to be commingled with the assets of other trusts participating therein; and

(b) To purchase shares in any investment company registered under the Investment Company Act of 1940, 15 U.S.C. 80a-1 et seq., including one which may be created, managed, underwritten, or to which investment advice is rendered or the shares of which are sold by the Trustee. The Trustee may vote such shares in its discretion.

Section 7. Express Powers of Trustee. Without in any way limiting the powers and discretions conferred upon the Trustee by the other provisions of this Agreement or by law, the Trustee is expressly authorized and empowered:

(a) To sell, exchange, convey, transfer, or otherwise dispose of any property held by it, by public or private sale. No person dealing with the Trustee shall be bound to see to the application of the purchase money or to inquire into the validity or expediency of any such sale or other disposition;

(b) To make, execute, acknowledge, and deliver any and all documents of transfer and conveyance and any and all other instruments that may be necessary or appropriate to carry out the powers herein granted;

(c) To register any securities held in the Fund in its own name or in the name of a nominee and to hold any security in bearer form or in book entry, or to combine certificates representing such securities with certificates of the same issue held by the Trustee in other fiduciary capacities, or to

deposit or arrange for the deposit of such securities in a qualified central depository even though, when so deposited, such securities may be merged and held in bulk in the name of the nominee of such depository with other securities deposited therein by another person, or to deposit or arrange for the deposit of any securities issued by the United States Government, or any agency or instrumentality thereof, with a Federal Government, or any agency or instrumentality thereof, with a Federal Reserve bank, but the books and records of the Trustee shall at all times show that all such securities are part of the Fund;

(d) To deposit any cash in interest-bearing accounts maintained or savings certificates issued by the Trustee, in its separate corporate capacity, or in any other banking institution affiliated with the Trustee, to the extent insured by an agency of the Federal or State government; and

(e) To compromise or otherwise adjust all claims in favor of or against the Fund.

Section 8. Taxes and Expenses. All taxes of any kind that may be assessed or levied against or in respect of the Fund and all brokerage commissions incurred by the Fund shall be paid from the Fund. All other expenses incurred by the Trustee in connection with the administration of this Trust shall be paid by the Grantor, including fees for legal services rendered to the Trustee, the compensation of the Trustee, and all other proper charges and disbursements of the Trustee. In the event the Grantor fails to pay the Trustee in accordance with this Section and written demand on the Grantor for payment does not result in prompt payment, the Trustee is entitled to payment from the Fund after written notification to NHDES.

Section 9. Annual Valuation. The Trustee shall annually, after the first deposit of monies from the Surety Bond, at least 30 days before the anniversary date of the first deposit, furnish to the Grantor and to the Commissioner a statement confirming the value of the Fund. Any securities in the Fund shall be valued at market value as of no more than 60 days before the anniversary date of the first deposit.

Section 10. Advice of Counsel. The Trustee may from time to time consult with counsel, who may be counsel to the Grantor, with respect to any question arising as to the construction of this Agreement or any action to be taken hereunder. The Trustee shall be fully protected, to the extent permitted by law, in acting upon the advice of counsel. To the extent the Trustee consults with counsel for the Grantor with respect to questions concerning the interpretation of this Agreement, or actions to be taken hereunder, the Trustee shall be fully protected, to the extent permitted by law, in acting upon the advise of such counsel, if the Trustee has communicated such questions and proposed interpretations or advice to the Commissioner in writing, and if the Commissioner has not objected to the proposed interpretation or advice within 30 days of notification.

Section 11. Trustee Compensation. The Trustee shall be entitled to reasonable compensation for its services as agreed upon in writing from time to time with the Grantor.

Section 12. Successor Trustee. The Trustee may resign or the Grantor may replace the Trustee, but such resignation or replacement shall not be effective until the Grantor has appointed a successor

trustee, NHDES approves the proposed successor, and the successor accepts the appointment. The successor trustee shall have the same powers and duties as those conferred upon the Trustee hereunder. Upon the successor trustee's acceptance of the appointment, the Trustee shall assign, transfer, and pay over to the successor trustee the funds and properties then constituting the Fund. If for any reason the Grantor cannot or does not act in the event of the resignation of the Trustee, the Trustee may apply to a court of competent jurisdiction for the appointment of a successor trustee or for instructions. The successor trustee shall specify the date on which it assumes administration of the trust in a writing sent to the Grantor, NHDES, and the present Trustee by certified mail ten days before such change becomes effective. Any expenses incurred by the Trustee as a result of the acts contemplated by this Section shall be paid by the Grantor as provided in Section 8.

Section 13. Instructions to the Trustee. All orders, requests, and instructions by the Grantor to the Trustee shall be in writing, signed by such persons as are designated in **Appendix B** or such others as may be designated by amendment to **Appendix B**. The Trustee shall be fully protected in acting without inquiry in accordance with the Grantor's orders, requests, and instructions where Grantor is authorized under this Agreement to issue such orders, requests and instructions. All orders, requests and instructions by NHDES to the Trustee shall be in writing, signed by the Commissioner. The Trustee shall act and shall be fully protected in acting in accordance with such orders, requests, and instructions. The Trustee shall have the right to assume, in the absence of written notice to the contrary, that no event constituting a change or a termination of the authority of any person on behalf of the Grantor or NHDES has occurred. The Trustee shall have no duty to act in the absence of such orders, requests and instructions from the Grantor and/or NHDES, except as provided for herein. In the event that the Trustee receives contradicting instructions from the Grantor and the Commissioner, or in the event of a dispute between the Grantor and the Commissioner, the Trustee shall be entitled to rely and act upon the instructions of the Commissioner without incurring any liability and obligation with respect to the Grantor.

Section 14. Amendment of Agreement. This Agreement may be amended by an instrument in writing executed by the Grantor and the Trustee, after approval by NHDES, or by the Trustee and NHDES if the Grantor ceases to exist and has no successor or assign.

Section 15. Irrevocability and Termination. Subject to the right of the parties to amend this Agreement as provided in Section 14, this Trust shall be irrevocable and shall continue until terminated as provided below. The Fund shall terminate at the earliest of:

(a) The written agreement of the Grantor, the Trustee and the Commissioner, or by the Trustee and the Commissioner, if the Grantor ceases to exist and has no successor or assign.

(b) Certification by the Commissioner that the Closure Work at the Facility has been fully completed.

Upon termination of the Fund, all property remaining in the Fund, less final trust administration expenses shall be delivered to the Grantor.

Section 16. Immunity and Indemnification. The Trustee shall not incur personal liability of any nature in connection with any act or omission, made in good faith, in the administration of this Fund, or in carrying out any directions by the Grantor or NHDES issued in accordance with this Agreement. The Trustee shall be indemnified and saved harmless by the Grantor or, if recourse against the Grantor fails, from the Fund from and against any personal liability to which the Trustee may be subjected by reason of any act or conduct in its official capacity, including all expenses reasonably incurred in its defense in the event the Grantor fails to provide such defense.

Section 17. Choice of Law. This Agreement shall be administered, construed, and enforced according to the laws of the State of New Hampshire.

Section 18. Interpretation. As used in this Agreement, words in the singular include the plural and words in the plural include the singular. The descriptive headings for each Section of this Agreement shall not affect the interpretation or the legal efficacy of this Agreement.

Section 19. Successors and Assigns. This Agreement shall inure to the benefit of and be binding upon the successors and assigns of the parties hereto. The Grantor may not assign its rights and obligations under this Agreement to any other party without the prior written consent of the Commissioner.

Section 20. Incorporation of Preamble. The parties to this Agreement adopt and incorporate the assertions of the Preamble as though fully set forth herein.

IN WITNESS WHEREOF, the parties have caused this Agreement to be executed by their respective officers duly authorized and their corporate seals to be hereunto affixed and attested as of the date first above written.

Granite State Landfill, LLC:

Witness

By : _____
[Certificate of Authority]

U.S. Bank:

Witness

By : _____
[Certificate of Authority]

STATE OF VERMONT
COUNTY OF RUTLAND

The foregoing instrument was acknowledged before me this ____ day of _____, 20__,
by _____ duly authorized agent of Granite State Landfill LLC.

Notary Public

My Commission Expires: _____

STATE OF _____
COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____
_____, 20__, by duly authorized agent of U.S. Bank.

Notary Public

My Commission Expires: _____

Date of Last Revision: 6/20/11

Appendix A

SURETY BOND

Date Bond Executed: TBD

Effective Date: TBD

Principal: Granite State Landfill, LLC
25 Greens Hill Lane
Rutland, Vermont 05701

Type of Organization: Limited Liability Company

State of Formation: New Hampshire

Surety: Evergreen National Indemnity Company
6140 Parkland Boulevard, Suite 321
Mayfield Heights, Ohio 44124

Closure Amount: \$15,192,100 (FIFTEEN MILLION ONE HUNDRED
NINETY TWO THOUSAND ONE HUNDRED DOLLARS)

Total Penal Sum of Bond: \$15,192,100 (FIFTEEN MILLION ONE HUNDRED
NINETY TWO THOUSAND ONE HUNDRED DOLLARS)

Surety Bond Number: TBD

KNOW ALL PERSONS BY THESE PRESENT THAT we, Granite State Landfill, LLC, a New Hampshire Corporation with its principal place of business at 581 Trudeau Road, Bethlehem New Hampshire, as PRINCIPAL, and Evergreen National Indemnity Company, incorporated under the laws of the State of Ohio with its principal office in Cleveland, Ohio, and authorized to conduct the business of surety in the State of New Hampshire, as SURETY, are held and firmly bound unto the STATE OF NEW HAMPSHIRE, DEPARTMENT OF ENVIRONMENTAL SERVICES, 29 Hazen Drive, Concord, New Hampshire ("NHDES"), in the above penal sum (the "Guaranteed Amount") for the payment of which we bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally.

WHEREAS, the Principal is required under the laws of the State of New Hampshire, in particular New Hampshire RSA 149-M and regulations promulgated duly there under, to have a permit to operate the Granite State Landfill in Dalton, New Hampshire (the "Facility").

WHEREAS, the Principal has been issued DES Permit No. TBD (the "Permit") for the Facility. As a condition of the Permit, the Principal is required to perform closure at the Facility after termination of operations and to provide financial assurance for closure.

WHEREAS, The Guaranteed Amount represents the closure costs associated with the Facility and the Permit.

WHEREAS, the Principal is providing financial assurance for the performance of closure activities at the Facility by means of this Surety Bond and has established a standby trust fund, into which all payments made by the Surety under this Bond will be deposited.

NOW THEREFORE, the conditions of this obligation are such that if the Principal shall faithfully and properly perform the closure and post-closure activities at the Facility required under the Permit, as it may be revised from time to time with the approval of NHDES, and pursuant to all applicable laws and regulations, as they may be amended from time to time,

OR, if the Principal shall fund the standby trust fund before the beginning of final closure and obtain NHDES' written approval that the monies in the trust fund are adequate for all estimated closure and post-closure activities,

OR, if the Principal shall provide alternate financial assurance and obtain NHDES' written approval of such assurance,

THEN, within 90 days after the date notice of cancellation is received by both the Principal and NHDES from the Surety, this obligation shall be null and void. Otherwise, it is to remain in full force and effect.

The Surety shall become liable on this bond obligation only when the Principal has failed to fulfill the conditions described above. Upon written notification by NHDES that the Principal is not in compliance with the closure or post closure requirements of the Permit or applicable laws, rules or regulations, the Surety shall either promptly perform and complete closure of the Facility as required under the Permit and all applicable laws and regulations, or shall place the Guaranteed Amount into the standby trust fund as directed by the NHDES.

The Surety hereby waives notification of amendments to the Permit, the Facility closure plan, applicable laws, statutes, rules and regulations and agrees that no such amendment shall in any way alleviate its obligation on this bond.

The liability of the Surety shall not be discharged by any payment or succession of payments hereunder; unless and until such payment or payments shall amount in the aggregate to the penal sum of the bond, but in no event shall the obligation of the Surety hereunder exceed the Guaranteed Amount.

The Surety may cancel the bond by sending notice of cancellation by certified mail to the owner or operator and to the NHDES in which the facility is located, provided, however, that cancellation shall not occur during the 120 days beginning on the date of receipt of the notice of cancellation by both the Principal and the NHDES, as evidenced by the return receipts. Upon notification by the NHDES that the Principal has failed to provide alternate financial assurance and obtain written approval of such assurance from NHDES during the 120 days following receipt of cancellation, the Surety shall place funds in the amount of the entire penal sum into the standby trust fund as directed by the NHDES.

The Principal may terminate this bond by sending written notice to the Surety, provided, however, that no such notice shall become effective until the Surety receives written notification for termination of the bond by the NHDES.

IN WITNESS WHEREOF, the Principal and Surety have executed this Bond and have affixed their seals on the date set forth above.

The persons whose signatures appear below hereby certify that they are authorized to execute this surety bond on behalf of the Principal and Surety.

Signed and sealed this _____ day of _____, 202__.

IN THE PRESENCE OF:

Granite State Landfill, LLC:

_____ (PRINCIPAL)
Name and Title
Seal

Evergreen National Indemnity Company:

_____ (SURETY)
Name and Title
Seal

Appendix B
Designated Persons

Name

Facility/Company

Address

Phone

Fax

Email

POST-CLOSURE STANDBY TRUST AGREEMENT [TEMPLATE]

Standby Trust Agreement (the "Agreement") entered into as of _____, 20____ by and between Granite State Landfill LLC, a New Hampshire Limited Liability Company, with a principal place of business at 581 Trudeau Road, Bethlehem, NH, 03574 (the "Grantor") and U.S. Bank, 190 South LaSalle Street, Chicago, Illinois 60603 (the "Trustee").

PREAMBLE

The Grantor owns and operates a solid waste facility located at Dalton, New Hampshire (the "Facility"). The Facility consists of a landfill and is permitted by the New Hampshire Department of Environmental Services (NHDES) under **Solid Waste Management Facility Standard Permit No. _____** (the "Permit"). **The Permit was issued on [Date of Issuance].**

The Grantor is required under the laws of the State of New Hampshire, in particular New Hampshire RSA 149-M and the regulations duly promulgated there under as they may be amended from time to time, and under the terms of the Permit, to perform closure of the Facility at the end of the Facility's operations and to provide the necessary thirty-year post-closure monitoring and maintenance of the Facility. The closure and post-closure activities that must be performed by the Grantor are set forth in the Facility's approved closure plan, incorporated in the Permit, as it may be amended from time to time with the approval of NHDES.

The Grantor is further required to provide financial assurance to the State of New Hampshire that funds will be available in the future to cover the cost of all required closure and post-closure activities of the Facility. The Grantor has elected to satisfy its obligation to provide financial assurance for the Facility by obtaining a **SURETY BOND FOR POST-CLOSURE** in the amount of **\$12,613,433 (TWELVE MILLION SIX HUNDRED THIRTEEN THOUSAND FOUR HUNDRED THIRTY THREE DOLLARS)** from Evergreen National Indemnity Company and by establishing this standby trust agreement, both for the benefit of the State of New Hampshire.

The Grantor, acting through its duly authorized officers, has selected the Trustee to fulfill the obligations identified for the Trustee under this Agreement and the Trustee is willing to act in that capacity and to fulfill its obligations under this Agreement.

THEREFORE, the Grantor and the Trustee agree as follows:

Section 1. Identification of Facility and Post-Closure Work.

(a) This Agreement pertains to the Facility, as more specifically described in the Permit, the Post-Closure Work and to the **Surety Bond**, a copy of which is attached as **Appendix A**. No provision is hereby made for closure of other existing or proposed phases of the Facility.

(b) The Post-Closure Work is defined as all work, materials, labor or other services required under the Facility's closure plan, permits, approvals related thereto and/or laws and rules of the State of

New Hampshire, as they may be amended from time to time, to carry out closure and 30 years of post-closure monitoring and maintenance of the Facility.

(c) Current estimates for the cost of the Post-Closure Work total **\$12,613,433 (TWELVE MILLION SIX HUNDRED THIRTEEN THOUSAND FOUR HUNDRED THIRTY THREE DOLLARS)**. The cost of the Post-Closure Work may be revised from time to time as necessary to more accurately reflect actual anticipated costs.

Section 2. Establishment of Fund. Pursuant to the conditions of this Agreement, the Grantor and the Trustee hereby establish a standby trust fund (the "Fund") for the benefit of the State of New Hampshire, through its Department of Environmental Services, Waste Management Division. The Fund is dedicated exclusively to the Post-Closure Work at the Facility. The Grantor and the Trustee intend that no third party have access to the Fund except as herein provided. The Commissioner of NHDES, or the Commissioner's duly appointed designee, shall exercise all powers and responsibilities given to the State of New Hampshire herein. The Commissioner may designate another state official to exercise those powers and responsibilities in his or her stead with 10 days written notice to the Trustee and Grantor.

Section 3. Payment Comprising the Fund.

(a) The Fund is established initially with the delivery and deposit of the **Surety Bond** with the Trustee. The amount guaranteed under the **Surety Bond** shall be deposited in the Fund in the event payment is triggered under the **Surety Bond** and funds are received by the Trustee.

(b) The Fund will consist of monies paid under the **Surety Bond**, any other cash or securities acceptable to the Trustee subsequently deposited in the Fund, and all earnings, interest and profits thereon, less any payments or distributions made by the Trustee pursuant to this Agreement.

(c) The Fund shall be held by the Trustee, in trust, as hereinafter provided. The Trustee shall not be responsible nor shall it undertake any responsibility for the amount or adequacy of any payments necessary to discharge any obligations of the Grantor, nor shall the Trustee have any duty to collect such payments from the Grantor or Surety.

Section 4. Payment for Post-Closure Work. Upon receipt of funds from the Surety, the Trustee shall make payments from the Fund as the Commissioner shall direct in writing to provide for the payment of the Post-Closure Work consistent with this Agreement. The Trustee shall reimburse the Grantor or other persons as specified by the Commissioner from the Fund for Post-Closure Work expenditures in such amounts as the Commissioner shall direct in writing. In addition, the Trustee shall refund to the Grantor such amounts as NHDES specifies in writing. Upon refund, such refunds shall no longer constitute part of the Fund as defined herein. The Trustee shall account for each disbursement from the Fund consistent with the Commissioner's instructions. The Trustee shall notify the Commissioner and the Grantor when all monies have been disbursed.

Section 5. Trustee Management. The Trustee shall invest and reinvest the principal and income of the Fund and keep the Fund invested as a single fund, without distinction between principal

and income, in accordance with general investment policies and guidelines which the Grantor may communicate in writing to the Trustee from time to time, subject to the provisions of this Section and state law. All investments shall provide for the preservation of the principal of the Fund. In investing, reinvesting, exchanging, selling, and managing the Fund, the Trustee shall discharge its duties with respect to the Fund solely in the interest of NHDES, the beneficiary, and with the care, skill, prudence and diligence under the circumstances then prevailing which persons of prudence, acting in a like capacity and familiar with such matters, would use in the conduct of an enterprise of a like character and with like aims; except that:

(a) Securities or other obligations of the Grantor, or any other owner or operator of the facilities, or any of their affiliates as defined in the Investment Company Act of 1940, as amended, 15 U.S.C. 80a-2.(a), shall not be acquired or held, unless they are securities or other obligations of the federal or a state government;

(b) The Trustee is authorized to invest the Fund in time or demand deposits of the Trustee, to the extent insured by an agency of the federal or state government; and

(c) The Trustee is authorized to hold cash awaiting investment or distribution un-invested for a reasonable time and without liability for the payment of interest thereon.

Section 6. Commingling and Investment. The Trustee is expressly authorized in its discretion:

(a) To transfer from time to time any or all of the assets of the Fund to any common, commingled, or collective trust fund created by the Trustee in which the Fund is eligible to participate, subject to all of the provisions thereof, to be commingled with the assets of other trusts participating therein; and

(b) To purchase shares in any investment company registered under the Investment Company Act of 1940, 15 U.S.C. 80a-1 et seq., including one which may be created, managed, underwritten, or to which investment advice is rendered or the shares of which are sold by the Trustee. The Trustee may vote such shares in its discretion.

Section 7. Express Powers of Trustee. Without in any way limiting the powers and discretions conferred upon the Trustee by the other provisions of this Agreement or by law, the Trustee is expressly authorized and empowered:

(a) To sell, exchange, convey, transfer, or otherwise dispose of any property held by it, by public or private sale. No person dealing with the Trustee shall be bound to see to the application of the purchase money or to inquire into the validity or expediency of any such sale or other disposition;

(b) To make, execute, acknowledge, and deliver any and all documents of transfer and conveyance and any and all other instruments that may be necessary or appropriate to carry out the powers herein granted;

(c) To register any securities held in the Fund in its own name or in the name of a nominee and to hold any security in bearer form or in book entry, or to combine certificates representing such

securities with certificates of the same issue held by the Trustee in other fiduciary capacities, or to deposit or arrange for the deposit of such securities in a qualified central depository even though, when so deposited, such securities may be merged and held in bulk in the name of the nominee of such depository with other securities deposited therein by another person, or to deposit or arrange for the deposit of any securities issued by the United States Government, or any agency or instrumentality thereof, with a Federal Government, or any agency or instrumentality thereof, with a Federal Reserve bank, but the books and records of the Trustee shall at all times show that all such securities are part of the Fund;

(d) To deposit any cash in interest-bearing accounts maintained or savings certificates issued by the Trustee, in its separate corporate capacity, or in any other banking institution affiliated with the Trustee, to the extent insured by an agency of the Federal or State government; and

(e) To compromise or otherwise adjust all claims in favor of or against the Fund.

Section 8. Taxes and Expenses. All taxes of any kind that may be assessed or levied against or in respect of the Fund and all brokerage commissions incurred by the Fund shall be paid from the Fund. All other expenses incurred by the Trustee in connection with the administration of this Trust shall be paid by the Grantor, including fees for legal services rendered to the Trustee, the compensation of the Trustee, and all other proper charges and disbursements of the Trustee. In the event the Grantor fails to pay the Trustee in accordance with this Section and written demand on the Grantor for payment does not result in prompt payment, the Trustee is entitled to payment from the Fund after written notification to NHDES.

Section 9. Annual Valuation. The Trustee shall annually, after the first deposit of monies from the Surety Bond, at least 30 days before the anniversary date of the first deposit, furnish to the Grantor and to the Commissioner a statement confirming the value of the Fund. Any securities in the Fund shall be valued at market value as of no more than 60 days before the anniversary date of the first deposit.

Section 10. Advice of Counsel. The Trustee may from time to time consult with counsel, who may be counsel to the Grantor, with respect to any question arising as to the construction of this Agreement or any action to be taken hereunder. The Trustee shall be fully protected, to the extent permitted by law, in acting upon the advice of counsel. To the extent the Trustee consults with counsel for the Grantor with respect to questions concerning the interpretation of this Agreement, or actions to be taken hereunder, the Trustee shall be fully protected, to the extent permitted by law, in acting upon the advise of such counsel, if the Trustee has communicated such questions and proposed interpretations or advice to the Commissioner in writing, and if the Commissioner has not objected to the proposed interpretation or advice within 30 days of notification.

Section 11. Trustee Compensation. The Trustee shall be entitled to reasonable compensation for its services as agreed upon in writing from time to time with the Grantor.

Section 12. Successor Trustee. The Trustee may resign or the Grantor may replace the Trustee,

but such resignation or replacement shall not be effective until the Grantor has appointed a successor trustee, NHDES approves the proposed successor, and the successor accepts the appointment. The successor trustee shall have the same powers and duties as those conferred upon the Trustee hereunder. Upon the successor trustee's acceptance of the appointment, the Trustee shall assign, transfer, and pay over to the successor trustee the funds and properties then constituting the Fund. If for any reason the Grantor cannot or does not act in the event of the resignation of the Trustee, the Trustee may apply to a court of competent jurisdiction for the appointment of a successor trustee or for instructions. The successor trustee shall specify the date on which it assumes administration of the trust in a writing sent to the Grantor, NHDES, and the present Trustee by certified mail ten days before such change becomes effective. Any expenses incurred by the Trustee as a result of the acts contemplated by this Section shall be paid by the Grantor as provided in Section 8.

Section 13. Instructions to the Trustee. All orders, requests, and instructions by the Grantor to the Trustee shall be in writing, signed by such persons as are designated in **Appendix B** or such others as may be designated by amendment to **Appendix B**. The Trustee shall be fully protected in acting without inquiry in accordance with the Grantor's orders, requests, and instructions where Grantor is authorized under this Agreement to issue such orders, requests and instructions. All orders, requests and instructions by NHDES to the Trustee shall be in writing, signed by the Commissioner. The Trustee shall act and shall be fully protected in acting in accordance with such orders, requests, and instructions. The Trustee shall have the right to assume, in the absence of written notice to the contrary, that no event constituting a change or a termination of the authority of any person on behalf of the Grantor or NHDES has occurred. The Trustee shall have no duty to act in the absence of such orders, requests and instructions from the Grantor and/or NHDES, except as provided for herein. In the event that the Trustee receives contradicting instructions from the Grantor and the Commissioner, or in the event of a dispute between the Grantor and the Commissioner, the Trustee shall be entitled to rely and act upon the instructions of the Commissioner without incurring any liability and obligation with respect to the Grantor.

Section 14. Amendment of Agreement. This Agreement may be amended by an instrument in writing executed by the Grantor and the Trustee, after approval by NHDES, or by the Trustee and NHDES if the Grantor ceases to exist and has no successor or assign.

Section 15. Irrevocability and Termination. Subject to the right of the parties to amend this Agreement as provided in Section 14, this Trust shall be irrevocable and shall continue until terminated as provided below. The Fund shall terminate at the earliest of:

(a) The written agreement of the Grantor, the Trustee and the Commissioner, or by the Trustee and the Commissioner, if the Grantor ceases to exist and has no successor or assign.

(b) Certification by the Commissioner that the Post-Closure Work at the Facility has been fully completed.

Upon termination of the Fund, all property remaining in the Fund, less final trust administration

expenses shall be delivered to the Grantor.

Section 16. Immunity and Indemnification. The Trustee shall not incur personal liability of any nature in connection with any act or omission, made in good faith, in the administration of this Fund, or in carrying out any directions by the Grantor or NHDES issued in accordance with this Agreement. The Trustee shall be indemnified and saved harmless by the Grantor or, if recourse against the Grantor fails, from the Fund from and against any personal liability to which the Trustee may be subjected by reason of any act or conduct in its official capacity, including all expenses reasonably incurred in its defense in the event the Grantor fails to provide such defense.

Section 17. Choice of Law. This Agreement shall be administered, construed, and enforced according to the laws of the State of New Hampshire.

Section 18. Interpretation. As used in this Agreement, words in the singular include the plural and words in the plural include the singular. The descriptive headings for each Section of this Agreement shall not affect the interpretation or the legal efficacy of this Agreement.

Section 19. Successors and Assigns. This Agreement shall inure to the benefit of and be binding upon the successors and assigns of the parties hereto. The Grantor may not assign its rights and obligations under this Agreement to any other party without the prior written consent of the Commissioner.

Section 20. Incorporation of Preamble. The parties to this Agreement adopt and incorporate the assertions of the Preamble as though fully set forth herein.

IN WITNESS WHEREOF, the parties have caused this Agreement to be executed by their respective officers duly authorized and their corporate seals to be hereunto affixed and attested as of the date first above written.

Granite State Landfill, LLC:

Witness

By : _____
[Certificate of Authority]

U.S. Bank:

Witness

By : _____
[Certificate of Authority]

STATE OF VERMONT
COUNTY OF RUTLAND

The foregoing instrument was acknowledged before me this ____ day of _____, 20__,
by _____ duly authorized agent of Granite State Landfill LLC.

Notary Public

My Commission Expires: _____

STATE OF _____
COUNTY OF _____

The foregoing instrument was acknowledged before me this _____ day of _____
_____, 20__, by duly authorized agent of U.S. Bank.

Notary Public

My Commission Expires: _____

Date of Last Revision: 6/20/11

Appendix A

SURETY BOND

Date Bond Executed: TBD

Effective Date: TBD

Principal: Granite State Landfill, LLC
25 Greens Hill Lane
Rutland, Vermont 05701

Type of Organization: Limited Liability Company

State of Formation: New Hampshire

Surety: Evergreen National Indemnity Company
6140 Parkland Boulevard, Suite 321
Mayfield Heights, Ohio 44124

Post-Closure Amount: \$12,613,433 (TWELVE MILLION SIX HUNDRED THIRTEEN THOUSAND FOUR HUNDRED THIRTY THREE DOLLARS)

Total Penal Sum of Bond: \$12,613,433 (TWELVE MILLION SIX HUNDRED THIRTEEN THOUSAND FOUR HUNDRED THIRTY THREE DOLLARS)

Surety Bond Number: TBD

KNOW ALL PERSONS BY THESE PRESENT THAT we, Granite State Landfill, LLC, a New Hampshire Corporation with its principal place of business at 581 Trudeau Road, Bethlehem New Hampshire, as PRINCIPAL, and Evergreen National Indemnity Company, incorporated under the laws of the State of Ohio with its principal office in Cleveland, Ohio, and authorized to conduct the business of surety in the State of New Hampshire, as SURETY, are held and firmly bound unto the STATE OF NEW HAMPSHIRE, DEPARTMENT OF ENVIRONMENTAL SERVICES, 29 Hazen Drive, Concord, New Hampshire ("NHDES"), in the above penal sum (the "Guaranteed Amount") for the payment of which we bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally.

WHEREAS, the Principal is required under the laws of the State of New Hampshire, in particular New Hampshire RSA 149-M and regulations promulgated duly there under, to have a permit to operate the Granite State Landfill in Dalton, New Hampshire (the "Facility").

WHEREAS, the Principal has been issued DES Permit No. TBD (the "Permit") for the Facility. As a condition of the Permit, the Principal is required to perform closure at the Facility after termination of operations and to provide financial assurance for closure.

WHEREAS, The Guaranteed Amount represents the closure costs associated with the Facility and the Permit.

WHEREAS, the Principal is providing financial assurance for the performance of closure activities at the Facility by means of this Surety Bond and has established a standby trust fund, into which all payments made by the Surety under this Bond will be deposited.

NOW THEREFORE, the conditions of this obligation are such that if the Principal shall faithfully and properly perform the closure and post-closure activities at the Facility required under the Permit, as it may be revised from time to time with the approval of NHDES, and pursuant to all applicable laws and regulations, as they may be amended from time to time,

OR, if the Principal shall fund the standby trust fund before the beginning of final closure and obtain NHDES' written approval that the monies in the trust fund are adequate for all estimated closure and post-closure activities,

OR, if the Principal shall provide alternate financial assurance and obtain NHDES' written approval of such assurance,

THEN, within 90 days after the date notice of cancellation is received by both the Principal and NHDES from the Surety, this obligation shall be null and void. Otherwise, it is to remain in full force and effect.

The Surety shall become liable on this bond obligation only when the Principal has failed to fulfill the conditions described above. Upon written notification by NHDES that the Principal is not in compliance with the closure or post closure requirements of the Permit or applicable laws, rules or regulations, the Surety shall either promptly perform and complete closure of the Facility as required under the Permit and all applicable laws and regulations, or shall place the Guaranteed Amount into the standby trust fund as directed by the NHDES.

The Surety hereby waives notification of amendments to the Permit, the Facility closure plan, applicable laws, statutes, rules and regulations and agrees that no such amendment shall in any way alleviate its obligation on this bond.

The liability of the Surety shall not be discharged by any payment or succession of payments hereunder; unless and until such payment or payments shall amount in the aggregate to the penal sum of the bond, but in no event shall the obligation of the Surety hereunder exceed the Guaranteed Amount.

The Surety may cancel the bond by sending notice of cancellation by certified mail to the owner or operator and to the NHDES in which the facility is located, provided, however, that cancellation shall not occur during the 120 days beginning on the date of receipt of the notice of cancellation by both the Principal and the NHDES, as evidenced by the return receipts. Upon notification by the NHDES that the Principal has failed to provide alternate financial assurance and obtain written approval of such assurance from NHDES during the 120 days following receipt of cancellation, the Surety shall place funds in the amount of the entire penal sum into the standby trust fund as directed by the NHDES.

The Principal may terminate this bond by sending written notice to the Surety, provided, however, that no such notice shall become effective until the Surety receives written notification for termination of the bond by the NHDES.

IN WITNESS WHEREOF, the Principal and Surety have executed this Bond and have affixed their seals on the date set forth above.

The persons whose signatures appear below hereby certify that they are authorized to execute this surety bond on behalf of the Principal and Surety.

Signed and sealed this _____ day of _____, 202__.

IN THE PRESENCE OF:

Granite State Landfill, LLC:

_____ (PRINCIPAL)
Name and Title
Seal

Evergreen National Indemnity Company:

_____ (SURETY)
Name and Title
Seal

Appendix B
Designated Persons

Name

Facility/Company

Address

Phone

Fax

Email

Enclosure #5

GSL Revised Operating Plan Page

Traffic Pattern & Waste Fill Sequencing Plans are provided as Exhibit A.

The facility employs a recordable video monitoring system at the facility and includes surveillance of; the main entrance, scales, leachate load out area and the landfill gas collection blower station.

3.3 Waste Acceptance and Rejection Procedures

3.3.1 Waste Review

All waste delivery vehicles stop at the scale prior to proceeding into the landfill. The scale operator identifies the customer and queries the customer's account in the facility's computer system or manually enters a customer's information. The driver of the vehicle identifies the type and origin of waste which is entered into the facility's computer system by the scale house operator prior to allowing the vehicle to proceed to the active working area.

Loads identified as having prohibited wastes are to be rejected at the scales and documented on a Load Rejection & Waste Inspection Form (Exhibit B).

In addition, trucks delivering Non-Hazardous Special Waste are not allowed beyond the scale area unless written approval has been issued by GSL in accordance with section 3.3.2 detailed below.

GSL may segregate certain materials for on or off-site management. Materials which may be segregated include wood waste, metals, and cardboard. Incoming loads of C&D that have a large quantity of uncontaminated materials which may be recycled for further processing will be directed to discharge the load in a segregated area within the landfill. The materials may be utilized on-site (wood waste only material to be used on site) or transported off-site for recycle would have the following storage limitations.:

- Wood waste not to exceed 3,000 cubic yards
- Scrap metal not to exceed 80 cubic yards
- Cardboard not to exceed 80 cubic yards

It may be necessary to perform some hand sorting of materials to meet quality standards. Loads that will be removed from the site are to be directed over the scales to track quantity and destination of material.

3.3.2 Special Waste Requiring Case by Case Profiling & Approval

The facility has a comprehensive program for management and handling of Special Waste. Special Waste is defined as: